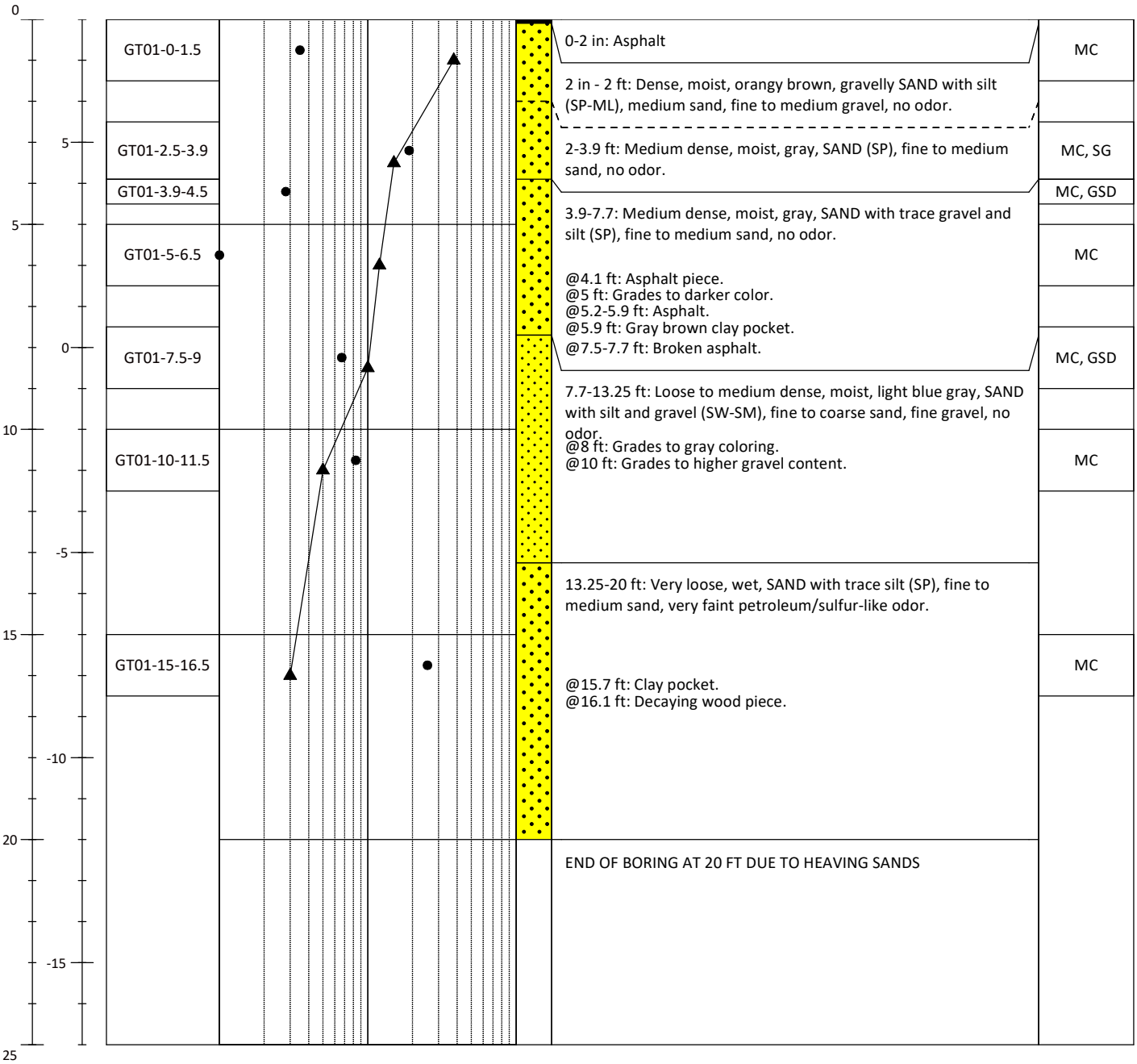
Appendix H
Geotechnical Boring Logs

Soil Boring Log
GT01

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'51.16"W**	Total Depth (ft): **20**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'57.13"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/21/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

0-2 in: Asphalt

2 in - 2 ft: Dense, moist, orangy brown, gravelly SAND with silt (SP-ML), medium sand, fine to medium gravel, no odor.

2-3.9 ft: Medium dense, moist, gray, SAND (SP), fine to medium sand, no odor.

3.9-7.7: Medium dense, moist, gray, SAND with trace gravel and silt (SP), fine to medium sand, no odor.

@4.1 ft: Asphalt piece.
@5 ft: Grades to darker color.
@5.2-5.9 ft: Asphalt.
@5.9 ft: Gray brown clay pocket.
@7.5-7.7 ft: Broken asphalt.

7.7-13.25 ft: Loose to medium dense, moist, light blue gray, SAND with silt and gravel (SW-SM), fine to coarse sand, fine gravel, no odor.
@8 ft: Grades to gray coloring.
@10 ft: Grades to higher gravel content.

13.25-20 ft: Very loose, wet, SAND with trace silt (SP), fine to medium sand, very faint petroleum/sulfur-like odor.

@15.7 ft: Clay pocket.
@16.1 ft: Decaying wood piece.

END OF BORING AT 20 FT DUE TO HEAVING SANDS

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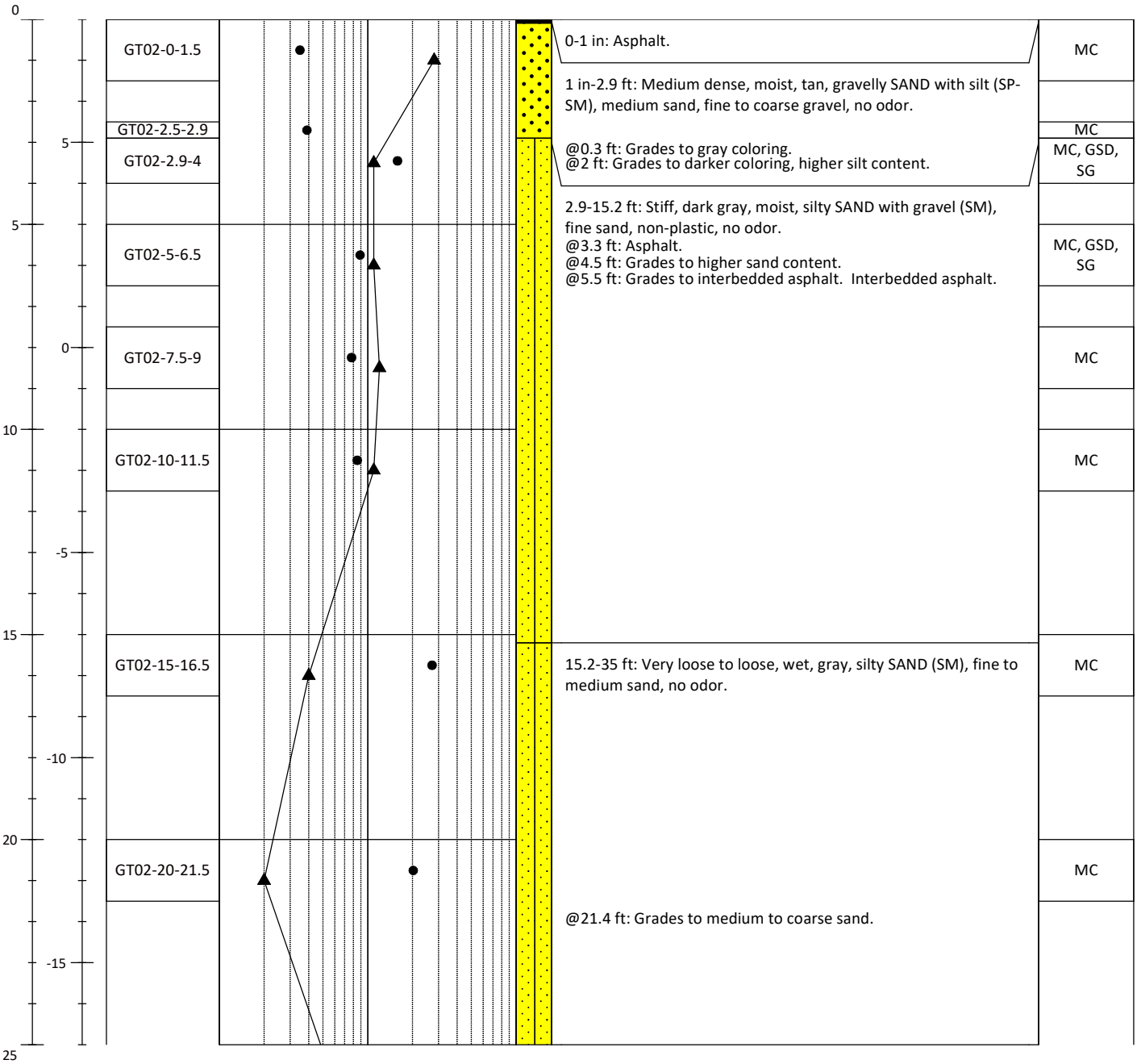
▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT02

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'48.30"W**	Total Depth (ft): **35**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'54.87"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/20/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

Samples ID's	Soil Description	Lab Tests
GT02-0-1.5	0-1 in: Asphalt.	MC
	1 in-2.9 ft: Medium dense, moist, tan, gravelly SAND with silt (SP-SM), medium sand, fine to coarse gravel, no odor.	
GT02-2.5-2.9		MC
GT02-2.9-4	@0.3 ft: Grades to gray coloring. @2 ft: Grades to darker coloring, higher silt content.	MC, GSD, SG
	2.9-15.2 ft: Stiff, dark gray, moist, silty SAND with gravel (SM), fine sand, non-plastic, no odor. @3.3 ft: Asphalt. @4.5 ft: Grades to higher sand content. @5.5 ft: Grades to interbedded asphalt. Interbedded asphalt.	
GT02-5-6.5		MC, GSD, SG
GT02-7.5-9		MC
GT02-10-11.5		MC
GT02-15-16.5	15.2-35 ft: Very loose to loose, wet, gray, silty SAND (SM), fine to medium sand, no odor.	MC
GT02-20-21.5		MC
	@21.4 ft: Grades to medium to coarse sand.	

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▲ SPT N-Value
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Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT02

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'48.30"W**	Total Depth (ft): **35**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'54.87"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/20/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
25		GT02-25-27			15.2-35 ft: Very loose to loose, wet, gray, silty SAND (SM), medium to coarse sand, no odor. @26.1 ft: Decomposing wood fragment. @27 ft: Pocket of sandy silt (fine sand) with wood.	MC, SG
	-20					
30		GT02-30-32			@31 ft: Clay lens. @31.1-31.8 ft: Shell fragments throughout. @31.9 ft: Wood chunks.	MC, GSD
	-25					
35					END OF BORING AT 35 FT DUE TO HEAVING SANDS	
	-30					
40						
	-35					
45						
	-40					
50						

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▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT03

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'45.97"W**	Total Depth (ft): **41.5**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'52.62"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/20/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
0		GT03-0-1.5			0-1 in: Asphalt.	MC
					1 in-3.1 ft: Medium dense, dry, light brown, SAND with silt and gravel (SP-SM), medium sand, angular to rounded, fine to medium gravel, no odor.	
	5	GT03-2.5-3.1				MC
		GT03-3.1-4			@0.4 ft: Grades to moist.	MC, ATT
5					3.1-18.25 ft: Medium stiff, moist, gray, SILT with trace gravel (ML), rounded, medium gravel, low plasticity, no odor.	
		GT03-5-6.5			@4.5 ft: Grades to soft. @5.4 ft: Wood fibers. @6 ft: Wood piece.	MC, GSD
	0	GT03-7.5-9			@7 ft: Grades to very soft. @7.6 ft: Gray, medium to coarse sand pocket. @7.9 ft: Olive gray, hard clay/silt pocket.	MC
10		GT03-10-11.5			@9.5 ft: Grades to sandy SILT, wood pieces throughout.	MC
	-5					
15						
	-10				18.25-35 ft: Very loose, wet, gray, SAND with trace silt and gravel (SP), fine to medium sand, fine gravel, no odor.	
20		GT03-20-21.5				MC
	-15				@23.25 ft: Grades to no gravel.	
25						

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Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT03

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'45.97"W**	Total Depth (ft): **41.5**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'52.62"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/20/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
25		GT03-25-26.5			18.25-35 ft: Very loose, wet, gray, SAND with trace silt (SP), fine to medium sand, no odor.	MC
	-20					
30		GT03-30-31.5				MC
	-25					
35					END OF BORING AT 35 FT DUE TO HEAVING SANDS	
	-30					
40						
	-35					
45						
	-40					
50						

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▲ SPT N-Value
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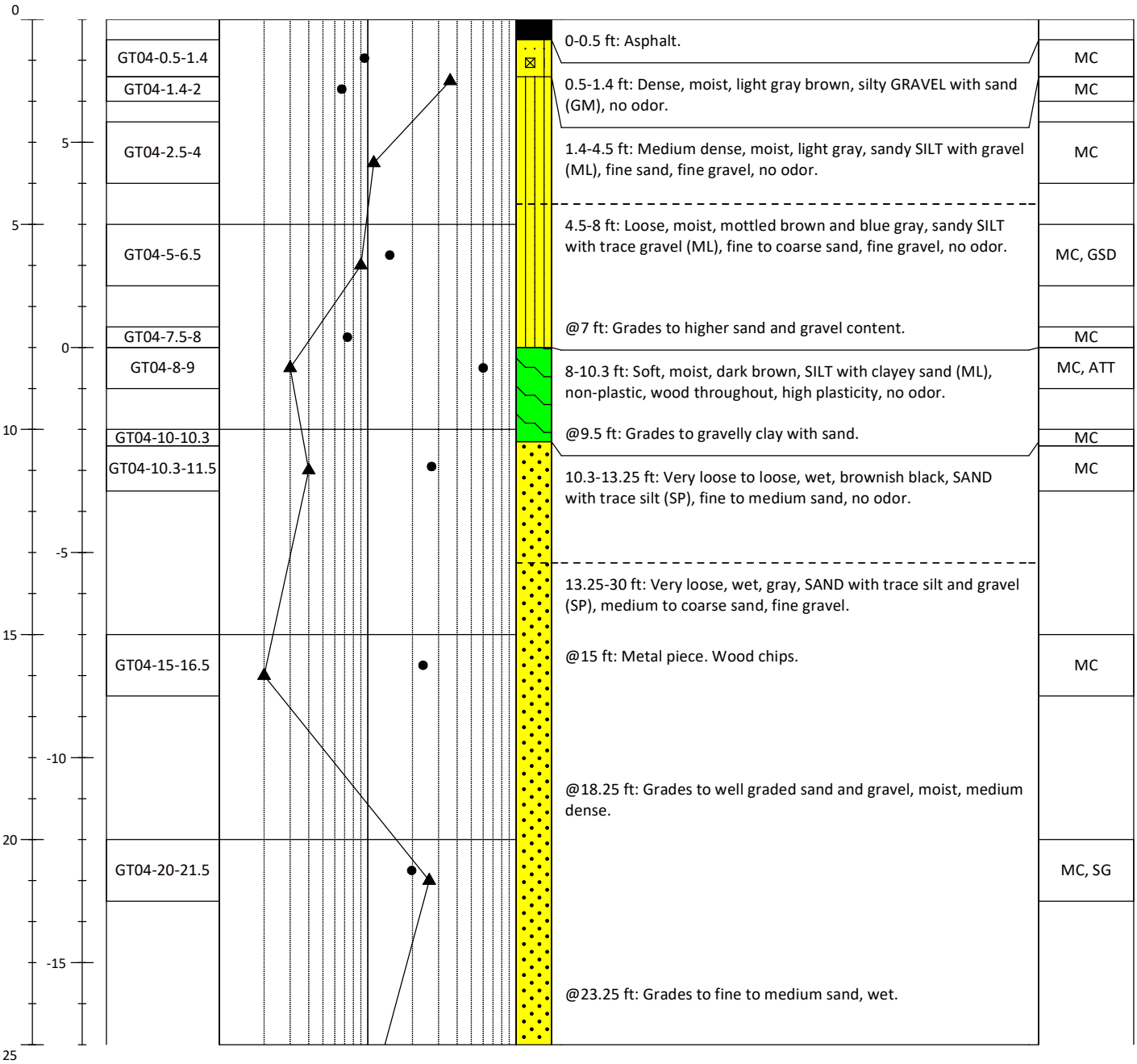
Soil Boring Log
GT04

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'44.83"W**	Total Depth (ft): **30**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'48.41"N**	Ground Surface Elevation (ft): **8**
Collection Date: **9/19/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

Samples ID's	Soil Description	Lab Tests
	0-0.5 ft: Asphalt.	
GT04-0.5-1.4	0.5-1.4 ft: Dense, moist, light gray brown, silty GRAVEL with sand (GM), no odor.	MC
GT04-1.4-2		MC
GT04-2.5-4	1.4-4.5 ft: Medium dense, moist, light gray, sandy SILT with gravel (ML), fine sand, fine gravel, no odor.	MC
GT04-5-6.5	4.5-8 ft: Loose, moist, mottled brown and blue gray, sandy SILT with trace gravel (ML), fine to coarse sand, fine gravel, no odor.	MC, GSD
GT04-7.5-8	@7 ft: Grades to higher sand and gravel content.	MC
GT04-8-9	8-10.3 ft: Soft, moist, dark brown, SILT with clayey sand (ML), non-plastic, wood throughout, high plasticity, no odor.	MC, ATT
GT04-10-10.3	@9.5 ft: Grades to gravelly clay with sand.	MC
GT04-10.3-11.5	10.3-13.25 ft: Very loose to loose, wet, brownish black, SAND with trace silt (SP), fine to medium sand, no odor.	MC
	13.25-30 ft: Very loose, wet, gray, SAND with trace silt and gravel (SP), medium to coarse sand, fine gravel.	
GT04-15-16.5	@15 ft: Metal piece. Wood chips.	MC
	@18.25 ft: Grades to well graded sand and gravel, moist, medium dense.	
GT04-20-21.5		MC, SG
	@23.25 ft: Grades to fine to medium sand, wet.	

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▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits*\A second attempt was made several feet away (GT04b). No samples were obtained. The boring was terminated at 8 feet due to lage amounts of wood and a metal piece.

Soil Boring Log
GT04

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'44.83"W**	Total Depth (ft): **30**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'48.41"N**	Ground Surface Elevation (ft): **8**
Collection Date: **9/19/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
25		GT04-25-26.5			15-30 ft: Very loose, wet, gray, SAND with trace silt and gravel (SP), fine to medium sand, fine gravel. @25.3 ft: Grades to coarse sand. @26 ft: Wood chunks.	MC
	-20					
30					END OF BORING AT 30 FT DUE TO HEAVING SANDS	
	-25					
35						
	-30					
40						
	-35					
45						
	-40					
50						

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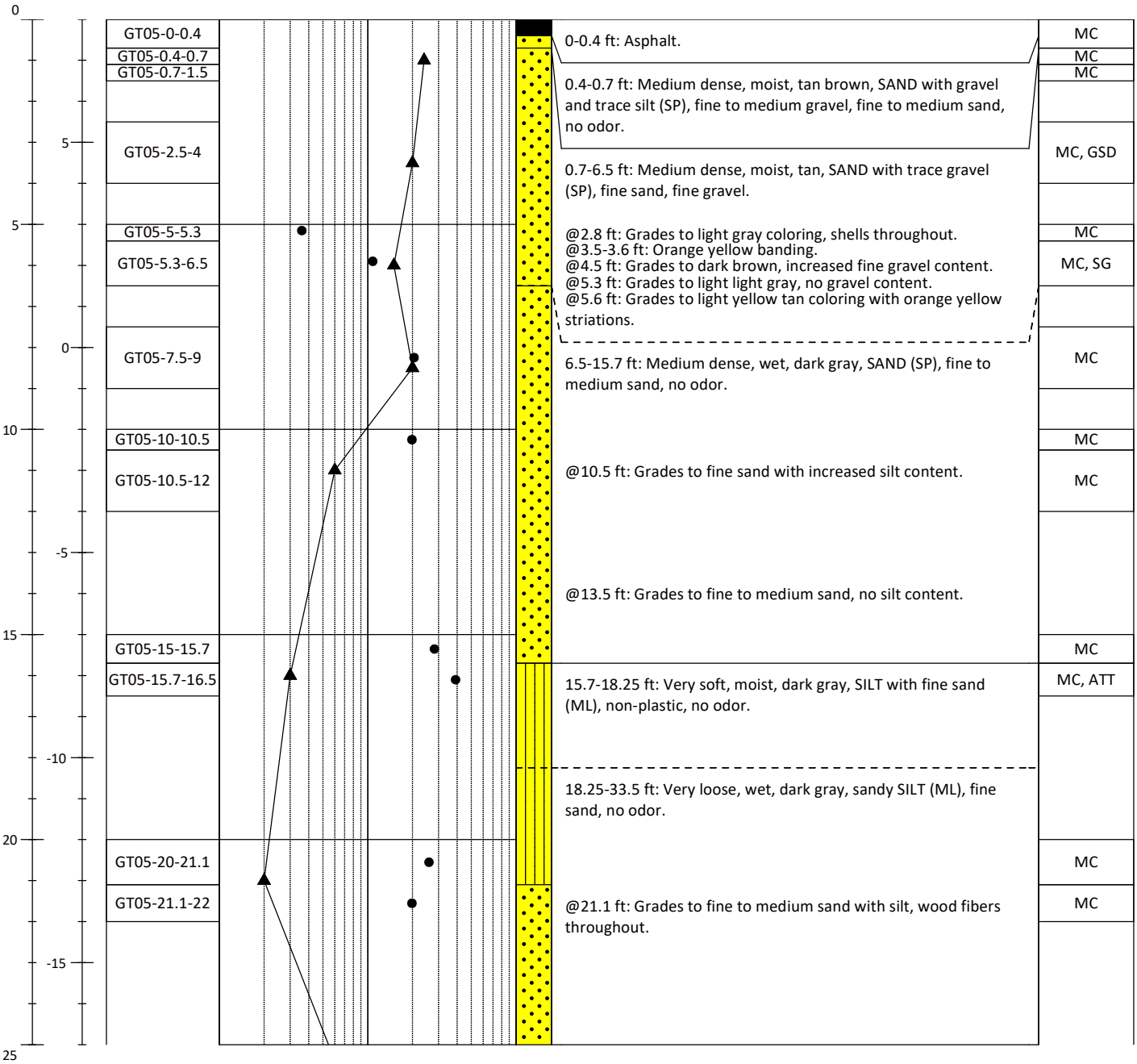
▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits*\A second attempt was made several feet away (GT04b). No samples were obtained. The boring was terminated at 8 feet due to lage amounts of wood and a metal piece.

Soil Boring Log
GT05

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'47.08"W**	Total Depth (ft): **42**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 1'2.00"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/21/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

0-0.4 ft: Asphalt.

0.4-0.7 ft: Medium dense, moist, tan brown, SAND with gravel and trace silt (SP), fine to medium gravel, fine to medium sand, no odor.

0.7-6.5 ft: Medium dense, moist, tan, SAND with trace gravel (SP), fine sand, fine gravel.

@2.8 ft: Grades to light gray coloring, shells throughout.
@3.5-3.6 ft: Orange yellow banding.
@4.5 ft: Grades to dark brown, increased fine gravel content.
@5.3 ft: Grades to light light gray, no gravel content.
@5.6 ft: Grades to light yellow tan coloring with orange yellow striations.

6.5-15.7 ft: Medium dense, wet, dark gray, SAND (SP), fine to medium sand, no odor.

@10.5 ft: Grades to fine sand with increased silt content.

@13.5 ft: Grades to fine to medium sand, no silt content.

15.7-18.25 ft: Very soft, moist, dark gray, SILT with fine sand (ML), non-plastic, no odor.

18.25-33.5 ft: Very loose, wet, dark gray, sandy SILT (ML), fine sand, no odor.

@21.1 ft: Grades to fine to medium sand with silt, wood fibers throughout.

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▲ SPT N-Value
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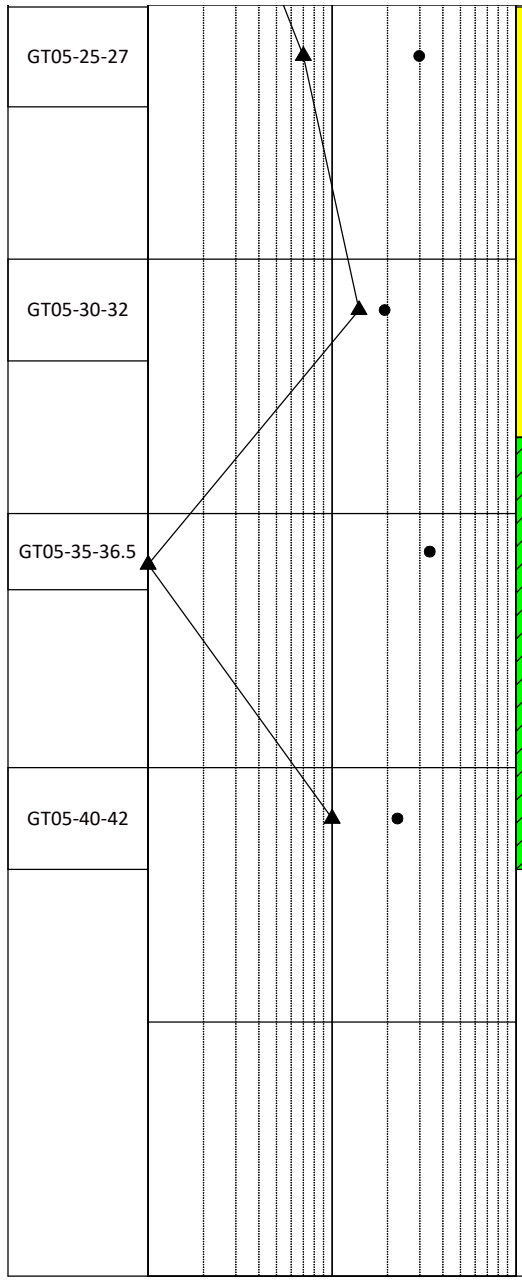
Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT05

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'47.08"W**	Total Depth (ft): **42**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 1'2.00"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/21/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
25		GT05-25-27			18.25-33.5 ft: Very loose, wet, dark gray, SAND with silt (SP-SM), fine to medium sand, no odor. @25-25.5 ft: Sandy silt, very wet, clay pocket within. @25.8-25.9 ft: Decaying wood.	MC
	-20					
30		GT05-30-32			@30-30.8 ft: Silty sand, very wet, dark gray. @31.4 ft: Decaying wood. @32 ft: Clay pocket.	MC
	-25					
35		GT05-35-36.5			33.5-41.5 ft: Very soft, moist, dark gray, silty SAND with clay (SM), non-plastic, shell fragments throughout, no odor.	MC, ATT, GSD
	-30					
40		GT05-40-42			@39 ft: Grades to stiff, fine to medium sand, lower fines content.	MC, GSD, SG
	-35				END OF BORING AT 42 FT	
45						
	-40					
50						



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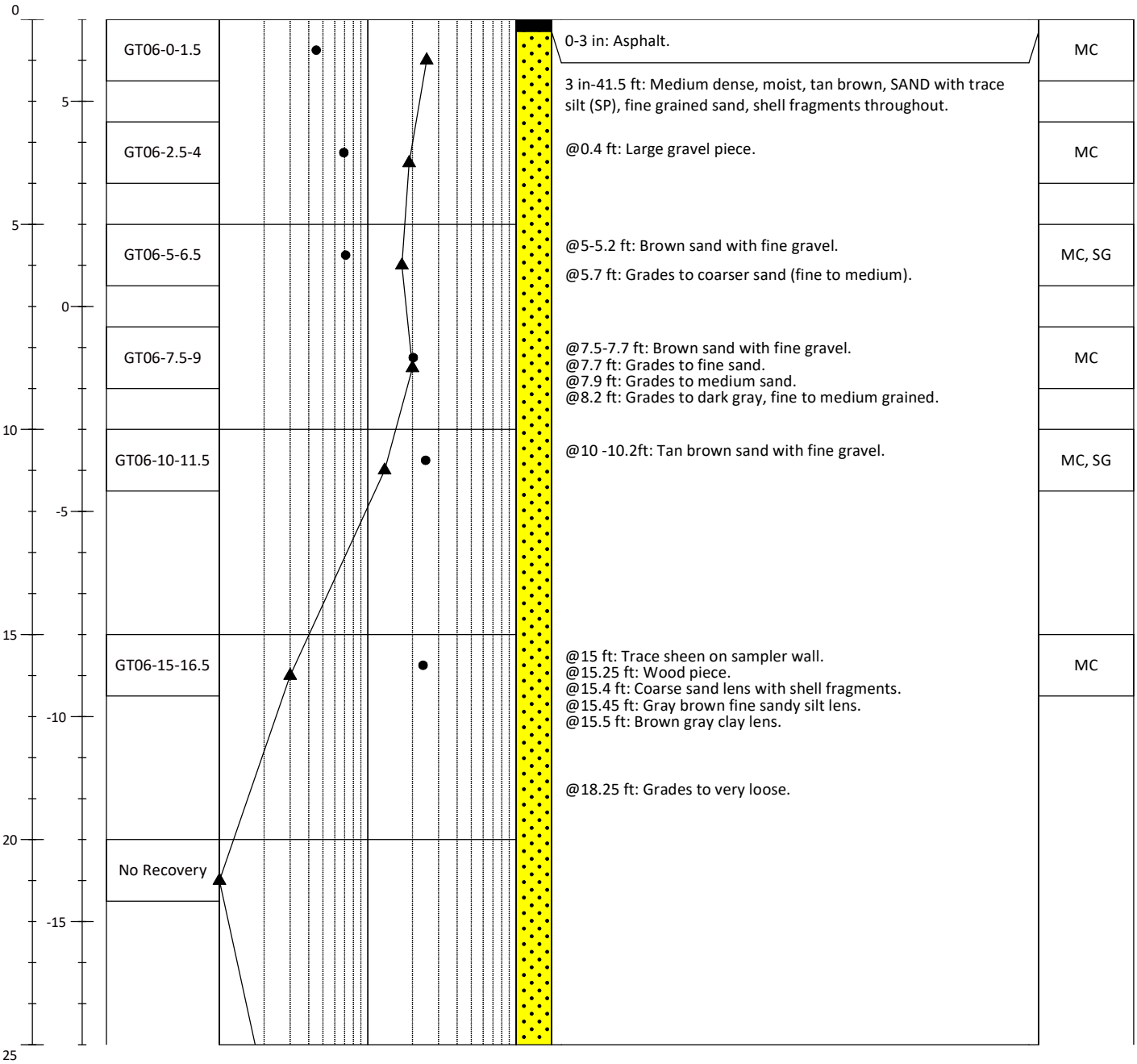
▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT06

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'43.88"W**	Total Depth (ft): **42**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'59.89"N**	Ground Surface Elevation (ft): **7**
Collection Date: **8/22/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

Samples ID's	Soil Description	Lab Tests
GT06-0-1.5	0-3 in: Asphalt. 3 in-41.5 ft: Medium dense, moist, tan brown, SAND with trace silt (SP), fine grained sand, shell fragments throughout.	MC
GT06-2.5-4	@0.4 ft: Large gravel piece.	MC
GT06-5-6.5	@5-5.2 ft: Brown sand with fine gravel. @5.7 ft: Grades to coarser sand (fine to medium).	MC, SG
GT06-7.5-9	@7.5-7.7 ft: Brown sand with fine gravel. @7.7 ft: Grades to fine sand. @7.9 ft: Grades to medium sand. @8.2 ft: Grades to dark gray, fine to medium grained.	MC
GT06-10-11.5	@10 -10.2ft: Tan brown sand with fine gravel.	MC, SG
GT06-15-16.5	@15 ft: Trace sheen on sampler wall. @15.25 ft: Wood piece. @15.4 ft: Coarse sand lens with shell fragments. @15.45 ft: Gray brown fine sandy silt lens. @15.5 ft: Brown gray clay lens. @18.25 ft: Grades to very loose.	MC
No Recovery		

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▲ SPT N-Value
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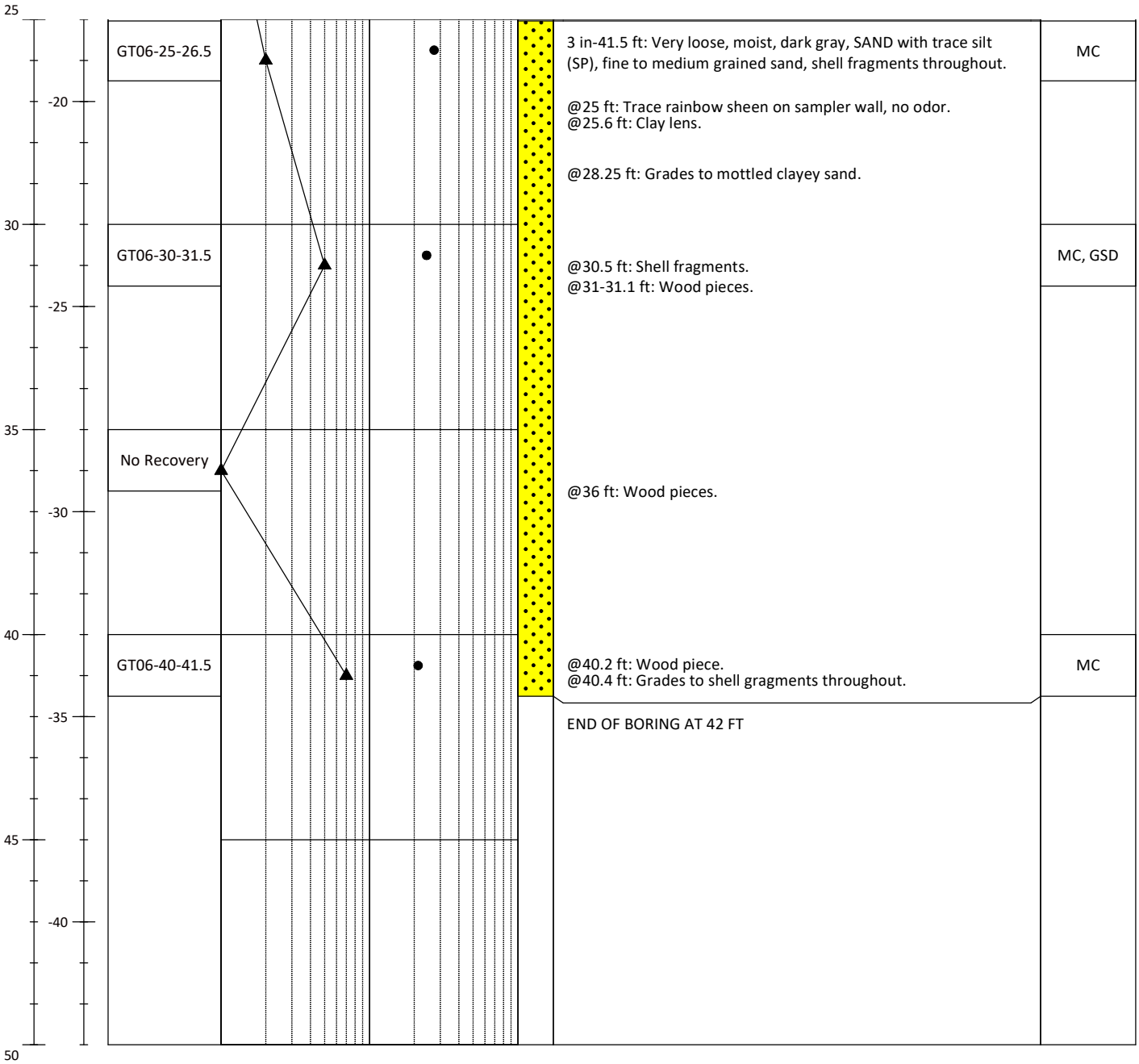
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT06

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'43.88"W**	Total Depth (ft): **42**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'59.89"N**	Ground Surface Elevation (ft): **7**
Collection Date: **8/22/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

Samples ID's	Soil Description	Lab Tests
GT06-25-26.5	3 in-41.5 ft: Very loose, moist, dark gray, SAND with trace silt (SP), fine to medium grained sand, shell fragments throughout. @25 ft: Trace rainbow sheen on sampler wall, no odor. @25.6 ft: Clay lens. @28.25 ft: Grades to mottled clayey sand.	MC
GT06-30-31.5	@30.5 ft: Shell fragments. @31-31.1 ft: Wood pieces.	MC, GSD
No Recovery	@36 ft: Wood pieces.	
GT06-40-41.5	@40.2 ft: Wood piece. @40.4 ft: Grades to shell gragments throughout.	MC
	END OF BORING AT 42 FT	

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▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT07

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'41.94"W**	Total Depth (ft): **41.5**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'58.51"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/22/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
0			1 2 5 10 20 50 100			
		GT07-0-2.5			0-0.4 ft: Asphalt. 0.4-0.7 ft: Medium dense, moist, tan brown, sandy GRAVEL (GP), rounded, fine to medium gravel, fine to medium sand, no odor.	MC
		GT07-2.5-2.9				MC
	5	GT07-2.9-4			0.7-2 ft: Medium dense, moist, light gray, SAND (SP), fine sand, no odor. @0.9 ft: Grades to tan coloring.	MC
5		GT07-5-5.2				MC
		GT07-5.2-6			2-2.9 ft: Medium dense, moist, dark gray, SAND (SP), medium to coarse sand,clay pockets throughout, no odor.	MC, ATT
		GT07-6-6.4				MC
	0				2.9-5.2 ft: Medium dense, moist, brown, SAND (SP), fine to medium sand, no odor. @3.2 ft: Grades to light tan coloring with yellow orange striations. @4.5 ft: Grades to higher gravel content, wood throughout, brown tan coloring.	
10		GT07-10-11.5			5.2-6 ft: Medium stiff, moist, dark gray, SILT (ML), low plasticity, fibers throughout, no odor.	MC
	-5				6-18.25 ft: Medium dense, moist, dark gray, SAND (SP), fine to medium sand, faint petroleum-like odor. @7.5-12 ft: Faint petroleum-like odor and trace sheen (in cuttings). @7.5-7.6 ft: Tan brown sand lens. @7.6-7.8 ft: Dark gray silt lens. @7.8 ft: Tan brown sand lens. @9.5 ft: Grades to fibers and clay pockets throughout. @10.5 ft: Wood chunk. @13.25 ft: Grades to no fiber or clay, trace fine sand.	
15		GT07-15-16.5				MC, GSD
	-10				18.25-25.8 ft: Very soft, moist, dark gray, SILT with sand and clay (ML), fine sand, non-plastic, fibers and wood chunks throughout.	
20		GT07-20-21.5				MC, ATT, SG
	-15				@23.5 ft: Grades to increased sand content, increased wood content.	
25						

ANCHOR QEA
1201 Third Avenue
Suite 2600 Seattle, WA 98101

▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT07

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'41.94"W**	Total Depth (ft): **41.5**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'58.51"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/22/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
25		GT07-25-26.5			18.25-25.8 ft: Very soft, moist, dark gray, SILT with sand and clay (ML), fine sand, non-plastic, fibers and wood chunks throughout. @25.3-25.4 ft: Wood chunk. @25.4 ft: Grades to increased silt content (non-plastic to low plasticity) with higher sand content. @25.7 ft: Wood chunk.	MC
	-20					
30		GT07-30-31.5			25.8-41.5 ft: Medium dense, wet, dark gray, SAND (SP), medium to coarse sand, no odor. @28.25 ft: Grades to trace wood throughout. @31 ft: Shell fragments. @31.5 ft: Brown clay pocket.	MC
	-25				@33.5 ft: Grades to fine to medium sand.	
35		GT07-35-36.5				MC, GS
	-30				@38.25 ft: Grades to shell fragments throughout.	
40		GT07-40-41.5			@5.2 ft: Brown clay pocket.	MC
	-35				END OF BORING AT 41.5 FT	
45						
	-40					
50						

ANCHOR QEA
1201 Third Avenue
Suite 2600 Seattle, WA 98101

▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT08

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'35.48"W**	Total Depth (ft): **41.5**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'54.89"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/19/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	

Depth (ft)	Elevation (ft)	Samples ID's	Uncorrected Standard Penetration Resistance (blows per foot) and Moisture Content (%) (1 2 5 10 20 50 100)	Lithology	Soil Description Samples and descriptions are in recovered depths. Classification scheme: USCS	Lab Tests
0					0-0.5 ft: Asphalt.	
					@1 ft: Railroad tie.	
	5	GT08-2.5-4			2.5-5.8 ft: Dense, moist, brown, gravelly SAND with trace silt (SP), medium sand, no odor.	MC
5		GT08-5-6.5				MC
					5.8-6.2 ft: Decomposing wood, moderate sulfur/petroleum-like odor.	
	0	GT08-7.5-9			6.2-41.5 ft: Loose, moist, light gray, SAND with trace silt (SP), medium to coarse sand, wood throughout.	MC, GSD, SG
					@7 ft: Grades to coarser sand, trace welll graded rounded gravel, medium dense.	
10		GT08-10-11.5			@9.5 ft: Grades to very loose to loose. @10 ft: Interbedded gray fine sand.	MC, GSD, SG
	-5				@13.25 ft: Grades to loose, wet, medium sand.	
15		GT08-15-16.5			@15 ft: Heaving sand noted.	MC
	-10				@18.25 ft: Grades to very loose.	
20		No Recovery				
	-15					
25						

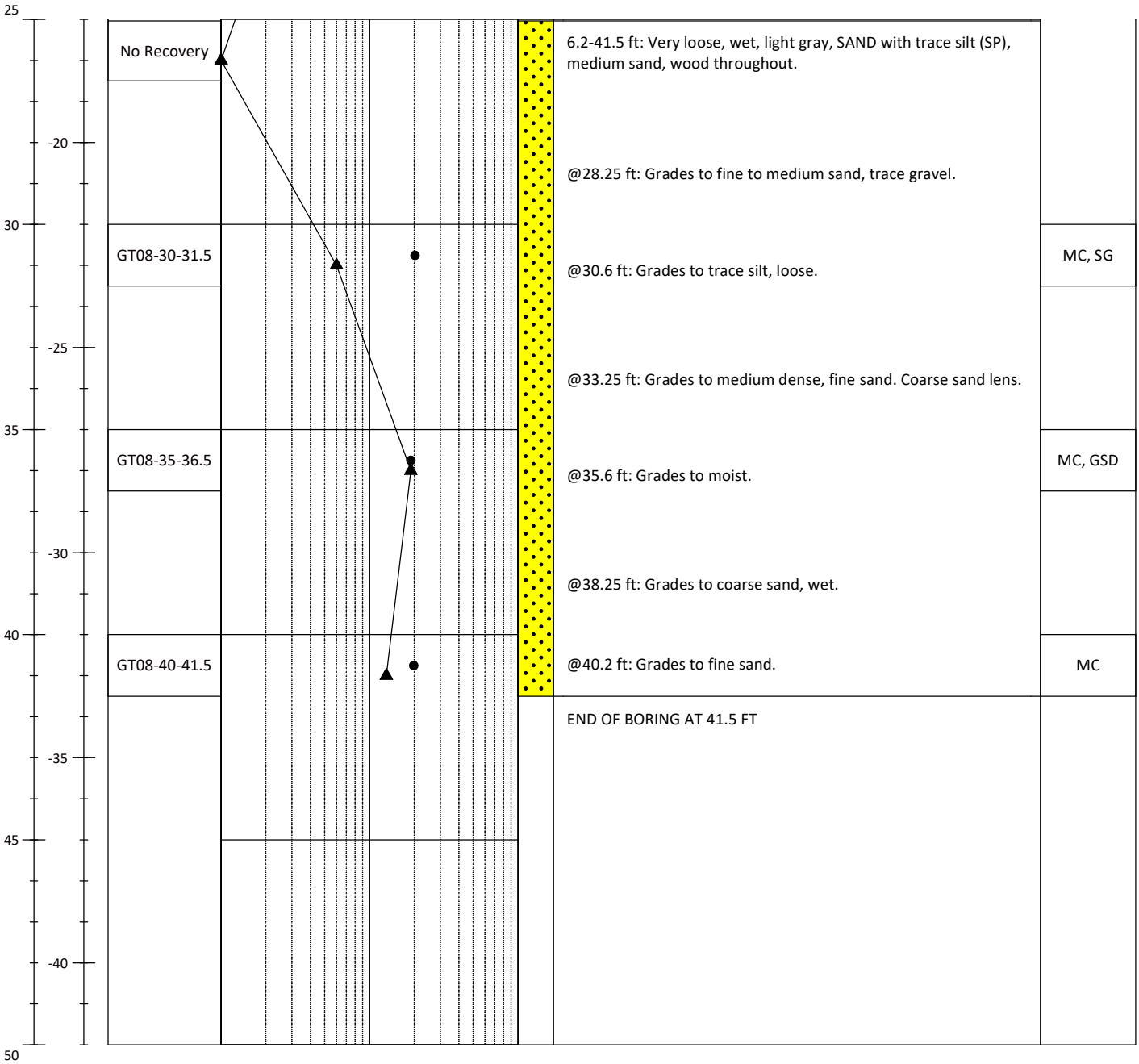
ANCHOR QEA
1201 Third Avenue
Suite 2600 Seattle, WA 98101

▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Soil Boring Log
GT08

Project #: **240909-01.01**	Project: **Former Nord Door Cleanup**	Method: **Hollow Stem Auger**
Location: **Everett, Washington**	Northing/Latitude: **122°12'35.48"W**	Total Depth (ft): **41.5**
Client: **Jeld-Wen, Inc.**	Easting/Longitude: **48° 0'54.89"N**	Ground Surface Elevation (ft): **8**
Collection Date: **8/19/24**	Horiz. Datum: **North American Datum of 1983**	Hammer: **140-lb Auto Hammer**
Contractor: **Holocene Drilling, Inc**	Vert. Datum: **North American Vertical Datum 1988**	Rig Model: **GT8 Track Mounted Rig**
Logged By: **RBP**	Sampler(s): **Split Spoon Sampler**	



Soil Description
Samples and descriptions are in recovered depths.
Classification scheme: USCS

Soil Description	Lab Tests
6.2-41.5 ft: Very loose, wet, light gray, SAND with trace silt (SP), medium sand, wood throughout.	
@28.25 ft: Grades to fine to medium sand, trace gravel.	
@30.6 ft: Grades to trace silt, loose.	MC, SG
@33.25 ft: Grades to medium dense, fine sand. Coarse sand lens.	
@35.6 ft: Grades to moist.	MC, GSD
@38.25 ft: Grades to coarse sand, wet.	
@40.2 ft: Grades to fine sand.	MC
END OF BORING AT 41.5 FT	

ANCHOR QEA
1201 Third Avenue
Suite 2600 Seattle, WA 98101

▲ SPT N-Value
● Moisture Content (%)
▼ Groundwater Level

Notes: GSD: Grain Size Distribution; MC: Moisture Content; SG: Specific Gravity; ATT: Atterberg Limits

Appendix I
Geotechnical Laboratory Reports

MATERIALS TESTING & CONSULTING, INC.

Client:	Anchor QEA, LLC.	**Date:**	December 4, 2024
Address:	1201 3rd Avenue, Suite 2600	**Project:**	Q.C. - Former Nord Door Cleanup
	Seattle, WA 98101	**Project #:**	24B105-03
Attn:	Jason Cornetta	**Sample #:**	B24-1819 - 1843
Revised On:		**Date sampled:**	August 19 & 20, 2024
		Control No:	12042024

As requested and authorized by the Client, MTC has performed the following test(s) on the sample number referenced above. The testing was performed in accordance with current, applicable AASHTO, ASTM, and/or WSDOT standards, which are referenced on the correlating test report pages. The results obtained in our laboratory are as detailed below and/or on the following pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
X	Sieve Analysis	See Attached Reports		Sulfate Soundness	
	Proctor			Bulk Density & Voids	
	Sand Equivalent			WSDOT Degradation	
	Fracture Count			LA Abrasion	
X	Moisture Content	See Attached Report		Cation Exchange Capacity	
	Specific Gravity, Coarse		X	Specific Gravity, Soils	See Attached Report
	Specific Gravity, Fine				
	Hydrometer Analysis				
X	Atterberg Limits	See Attached Reports			

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call the number below and ask to speak with your Project Manager or the Laboratory Manager.

Alex Eifrig

Respectfully Submitted,
Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Moisture Content ASTM C-566, ASTM D-2216

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: November 26, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: S. Boesenberg
Control No.: 12042024

Sample #	Location	Tare	Wet + Tare	Dry + Tare	Wgt. Of Moisture	Wgt. Of Soil	% Moisture
B24-1819	GT02 - 0 - 1.5	380.0	1168.2	1141.8	26.4	761.8	3.5%
B24-1820	GT02 - 2.5 - 2.9	215.2	318.5	314.6	3.9	99.4	3.9%
B24-1821	GT02 - 2.9 - 4	303.8	444.2	424.9	19.3	121.1	15.9%
B24-1822	GT02 - 5 - 6.5	306.5	393.8	386.7	7.1	80.2	8.9%
B24-1823	GT02 - 7.5 - 9	229.5	266.9	264.2	2.7	34.7	7.8%
B24-1824	GT02 - 10 - 11.5	222.4	446.0	428.5	17.5	206.1	8.5%
B24-1825	GT02 - 15 - 16.5	221.0	738.3	627.6	110.7	406.6	27.2%
B24-1826	GT02 - 20 - 21.5	419.2	1625.5	1421.7	203.8	1002.5	20.3%
B24-1827	GT02 - 25 - 27	414.4	1417.0	1246.9	170.1	832.5	20.4%
B24-1828	GT02 - 30 - 32	498.5	1784.2	1541.7	242.5	1043.2	23.2%
B24-1829	GT03 - 0 - 1.5	301.0	883.2	862.3	20.9	561.3	3.7%
B24-1830	GT03 - 3.1 - 4	224.9	243.3	240.4	2.9	15.5	18.7%
B24-1831	GT03 - 5 - 6.5	301.0	461.4	437.7	23.7	136.7	17.3%
B24-1832	GT03 - 7.5 - 9	208.6	519.2	451.2	68.0	242.6	28.0%
B24-1833	GT03 - 10 - 11.5	232.9	388.5	360.4	28.1	127.5	22.0%
B24-1834	GT03 - 20 - 21.5	223.8	1016.0	852.5	163.5	628.7	26.0%
B24-1835	GT03 - 25 - 27	222.9	1126.6	969.1	157.5	746.2	21.1%
B24-1836	GT03 - 30 - 31.5	234.5	401.0	368.3	32.7	133.8	24.4%
B24-1837	GT04 - 0.5 - 1.4	269.0	873.8	821.2	52.6	552.2	9.5%
B24-1838	GT04 - 1.4 - 2	303.3	534.8	520.3	14.5	217.0	6.7%
B24-1839	GT04 - 5 - 6.5	423.9	854.9	801.7	53.2	377.8	14.1%
B24-1840	GT04 - 7.5 - 8	310.9	502.9	489.8	13.1	178.9	7.3%
B24-1841	GT04 - 8 - 9	270.1	309.3	294.6	14.7	24.5	60.0%
B24-1842	GT04 - 10.3 - 11.5	423.4	638.3	592.7	45.6	169.3	26.9%
B24-1843	GT04 - 15 - 16.5	260.2	582.6	521.1	61.5	260.9	23.6%

All results apply only to actual locations and materials tested. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	2-Dec-24
Source:	GT02 - 2.9 - 4	**Tested By:**	R. Bohler
Sample#:	B24-1821	**Control No.:**	12042024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand with Gravel
Sample Color:
Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.009	mm	% Gravel =	16.4%	Coeff. of Curvature, C_C = 0.79
$D_{(10)}$ =	0.018	mm	% Sand =	41.6%	Coeff. of Uniformity, C_U = 11.35
$D_{(15)}$ =	0.027	mm	% Silt & Clay =	41.9%	Fineness Modulus = 1.77
$D_{(30)}$ =	0.054	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.113	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.203	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	7.808	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	53/87		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		98%	100.0%	0.0%
1/2"	12.50	96%	96%	100.0%	0.0%
3/8"	9.50	94%	94%	100.0%	0.0%
1/4"	6.30		87%	100.0%	0.0%
#4	4.75	84%	84%	100.0%	0.0%
#8	2.36		80%	100.0%	0.0%
#10	2.00	80%	80%	100.0%	0.0%
#16	1.18		74%	100.0%	0.0%
#20	0.850		72%	100.0%	0.0%
#30	0.600		70%	100.0%	0.0%
#40	0.425	69%	69%	100.0%	0.0%
#50	0.300		64%	100.0%	0.0%
#60	0.250		62%	100.0%	0.0%
#80	0.180		59%	100.0%	0.0%
#100	0.150	58%	58%	100.0%	0.0%
#140	0.106		49%	100.0%	0.0%
#170	0.090		45%	100.0%	0.0%
#200	0.075	41.9%	41.9%	100.0%	0.0%

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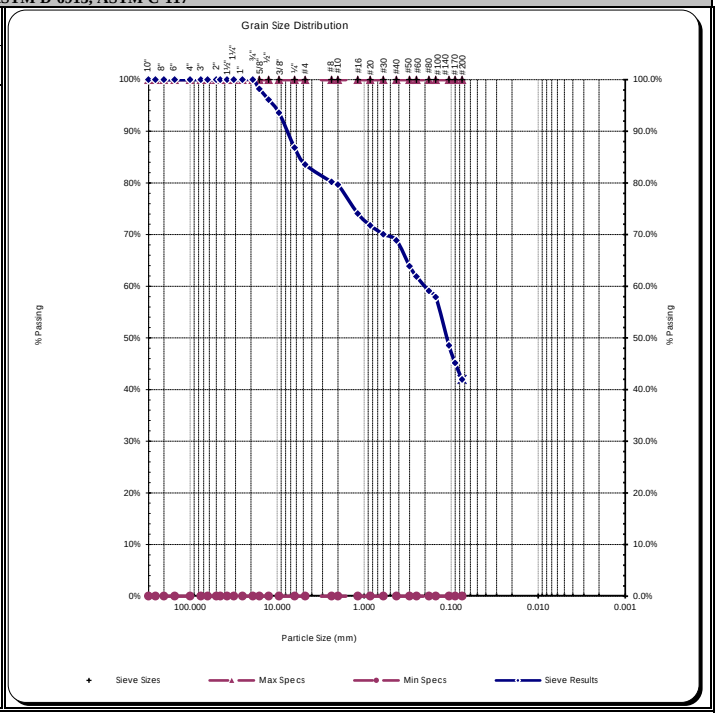

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	2-Dec-24
Source:	GT02 - 5 - 6.5	**Tested By:**	R. Bohler
Sample#:	B24-1822	**Control No.:**	12042024

Unified Soil Classification System, ASTM-2487
SP-SM, Poorly graded Sand with Silt and Gravel
Sample Color:
Gray-Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.032	mm	% Gravel =	23.4%	Coeff. of Curvature, C_C = 0.73
$D_{(10)}$ =	0.065	mm	% Sand =	65.0%	Coeff. of Uniformity, C_U = 23.01
$D_{(15)}$ =	0.107	mm	% Silt & Clay =	11.6%	Fineness Modulus = 3.11
$D_{(30)}$ =	0.265	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.802	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	1.488	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	10.573	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	25/96		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		97%	100.0%	0.0%
1/2"	12.50	93%	93%	100.0%	0.0%
3/8"	9.50	89%	89%	100.0%	0.0%
1/4"	6.30		80%	100.0%	0.0%
#4	4.75	77%	77%	100.0%	0.0%
#8	2.36		69%	100.0%	0.0%
#10	2.00	67%	67%	100.0%	0.0%
#16	1.18		56%	100.0%	0.0%
#20	0.850		51%	100.0%	0.0%
#30	0.600		47%	100.0%	0.0%
#40	0.425	45%	45%	100.0%	0.0%
#50	0.300		33%	100.0%	0.0%
#60	0.250		29%	100.0%	0.0%
#80	0.180		22%	100.0%	0.0%
#100	0.150	20%	20%	100.0%	0.0%
#140	0.106		15%	100.0%	0.0%
#170	0.090		13%	100.0%	0.0%
#200	0.075	11.6%	11.6%	100.0%	0.0%

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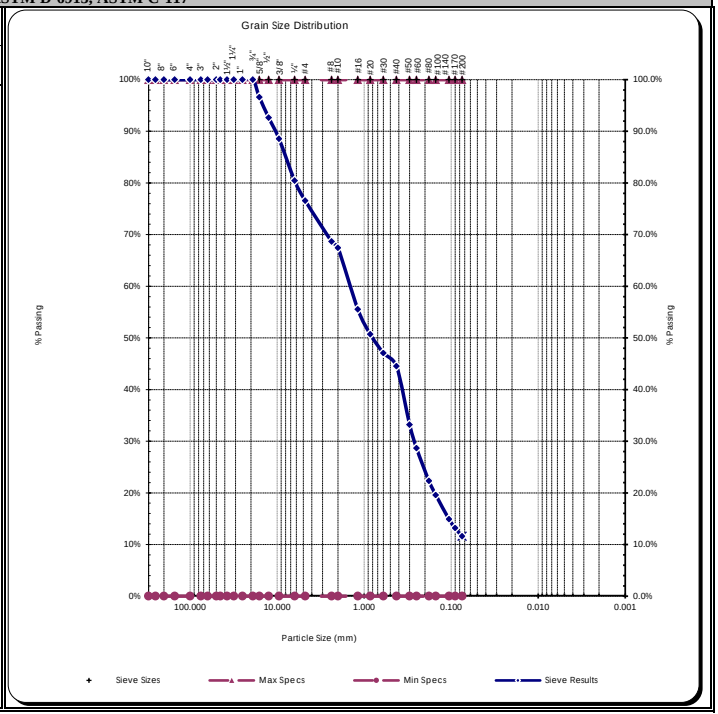

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Specific Gravity of Soils, ASTM D-854

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: December 2, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: Z. Romney
Control. No.: 12042024

Sample #	Location	Tare	Dry Soil + Tare	Mass of Dry Soil	Pycno ID	Mass of Pycno	Volume of Pycno	Density of Water @ Tx	Mass of Pycno filled w/ water & soils	Mass of Pycno filled w/ water	Temp. of Water, 0.1 *C	SpG of Soils	Temp. Correction Factor	Corrected SpG
B24-1822	GT02 - 5 - 6.5	357.38	420.51	63.13	SA-050 (B-1)	91.89	249.27	0.99712	380.40	340.44	24.7	2.724397	0.99892	2.72145438
B24-1827	GT02 - 25 -27	356.75	406.33	49.58	SA-050 (B-2)	92.08	249.31	0.99732	372.18	340.72	23.9	2.735924	0.99912	2.73351627
B24-1831	GT03 - 5 - 6.5	358.16	407.74	49.58	SA-050 (B-1)	91.9	249.3	0.99700	371.96	340.41	25.2	2.749527	0.99879	2.74620044

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	2-Dec-24
Source:	GT02 - 30 - 32	**Tested By:**	R. Bohler
Sample#:	B24-1828	**Control No.:**	12042024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand
Sample Color:
Gray-Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.023	mm	% Gravel =	0.2%	Coeff. of Curvature, C_C = 2.18
$D_{(10)}$ =	0.046	mm	% Sand =	83.5%	Coeff. of Uniformity, C_U = 8.44
$D_{(15)}$ =	0.069	mm	% Silt & Clay =	16.4%	Fineness Modulus = 1.80
$D_{(30)}$ =	0.197	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.324	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.387	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	1.552	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	1/4		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		100%	100.0%	0.0%
#10	2.00	100%	100%	100.0%	0.0%
#16	1.18		82%	100.0%	0.0%
#20	0.850		75%	100.0%	0.0%
#30	0.600		70%	100.0%	0.0%
#40	0.425	66%	66%	100.0%	0.0%
#50	0.300		46%	100.0%	0.0%
#60	0.250		38%	100.0%	0.0%
#80	0.180		27%	100.0%	0.0%
#100	0.150	23%	23%	100.0%	0.0%
#140	0.106		19%	100.0%	0.0%
#170	0.090		18%	100.0%	0.0%
#200	0.075	16.4%	16.4%	100.0%	0.0%

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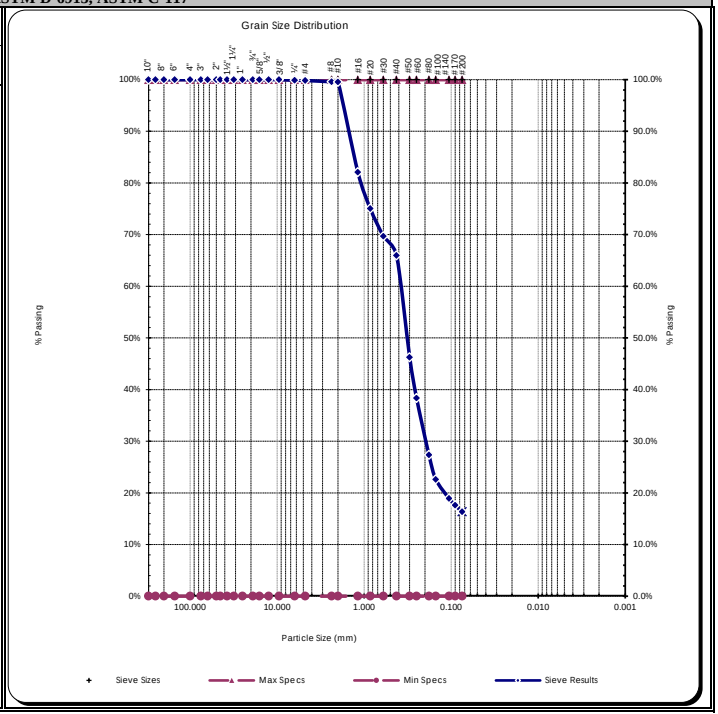

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

ASTM D-4318 Liquid Limit, Plastic Limit & Plasticity Index of Soils

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Unified Soils Classification System, ASTM D-2487**	
Project #:	24B105-03	**Sampled By:**	Client	OL, Organic Silt with Clay	
Client:	Anchor QEA, LLC.	**Date Tested:**	2-Dec-24	**Sample Color**	
Source:	GT03 - 3.1 - 4	**Tested By:**	Z. Romney	Brown	
Sample #:	B24-1830	**Control No.:**	12042024		

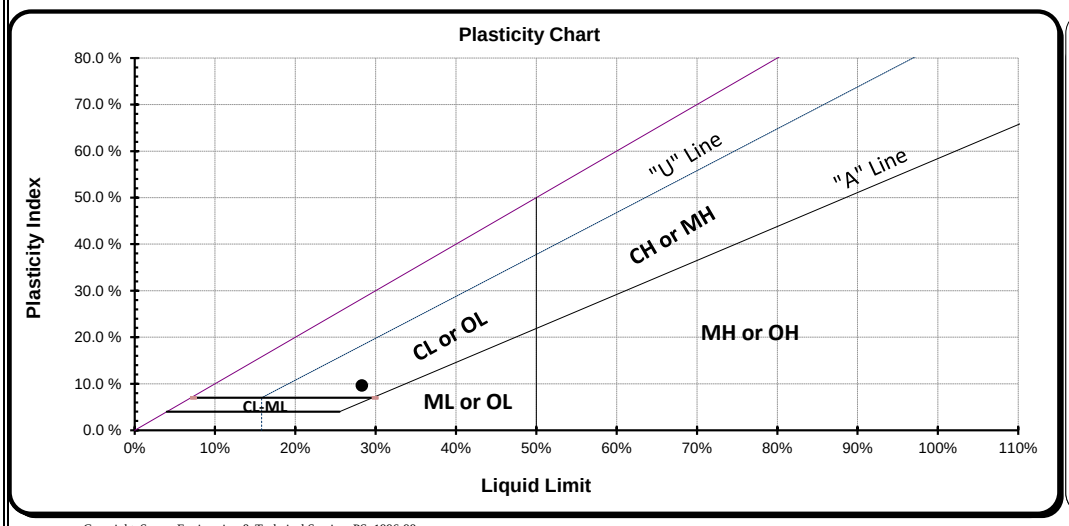
Liquid Limit Determination

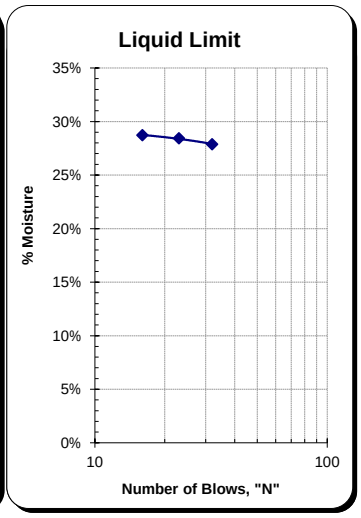
	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	32.63	29.79	37.19			
Weight of Dry Soils + Pan:	29.80	26.33	33.27			
Weight of Pan:	19.65	14.16	19.62			
Weight of Dry Soils:	10.15	12.17	13.65			
Weight of Moisture:	2.83	3.46	3.92			
% Moisture:	27.9 %	28.4 %	28.7 %			
Number of Blows:	32	23	16			

Liquid Limit @ 25 Blows:	28.3 %
Plastic Limit:	18.6 %
Plasticity Index, I_P:	9.7 %

Plastic Limit Determination

	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	26.10	26.91				
Weight of Dry Soils + Pan:	24.98	25.67				
Weight of Pan:	18.96	19.01				
Weight of Dry Soils:	6.02	6.66				
Weight of Moisture:	1.12	1.24				
% Moisture:	18.6 %	18.6 %				





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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	2-Dec-24
Source:	GT04 - 5 - 6.5	**Tested By:**	R. Bohler
Sample#:	B24-1839	**Control No.:**	12042024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand
Sample Color:
Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.013	mm	% Gravel =	14.2%	Coeff. of Curvature, C_C = 0.67
$D_{(10)}$ =	0.026	mm	% Sand =	57.1%	Coeff. of Uniformity, C_U = 15.25
$D_{(15)}$ =	0.039	mm	% Silt & Clay =	28.6%	Fineness Modulus = 2.14
$D_{(30)}$ =	0.084	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.272	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.399	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	7.001	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	6/13		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		98%	100.0%	0.0%
1/2"	12.50	96%	96%	100.0%	0.0%
3/8"	9.50	95%	95%	100.0%	0.0%
1/4"	6.30		89%	100.0%	0.0%
#4	4.75	86%	86%	100.0%	0.0%
#8	2.36		79%	100.0%	0.0%
#10	2.00	78%	78%	100.0%	0.0%
#16	1.18		70%	100.0%	0.0%
#20	0.850		66%	100.0%	0.0%
#30	0.600		64%	100.0%	0.0%
#40	0.425	62%	62%	100.0%	0.0%
#50	0.300		52%	100.0%	0.0%
#60	0.250		48%	100.0%	0.0%
#80	0.180		43%	100.0%	0.0%
#100	0.150	40%	40%	100.0%	0.0%
#140	0.106		34%	100.0%	0.0%
#170	0.090		31%	100.0%	0.0%
#200	0.075	28.6%	28.6%	100.0%	0.0%

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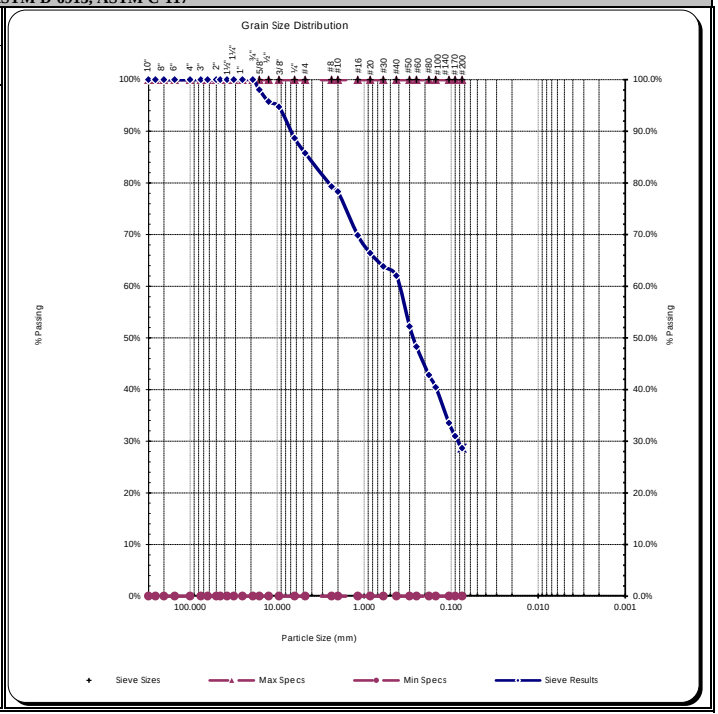

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Comments:

Reviewed by: Alex Eifrig
Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

ASTM D-4318 Liquid Limit, Plastic Limit & Plasticity Index of Soils

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Visual Soils Classification**	
Project #:	24B105-03	**Sampled By:**	Client	Silt with Clayey Sand	
Client:	Anchor QEA, LLC.	**Date Tested:**	2-Dec-24	**Sample Color**	
Source:	GT04 - 8 - 9	**Tested By:**	Z. Romney	Brown	
Sample #:	B24-1841	**Control No.:**	12042024		

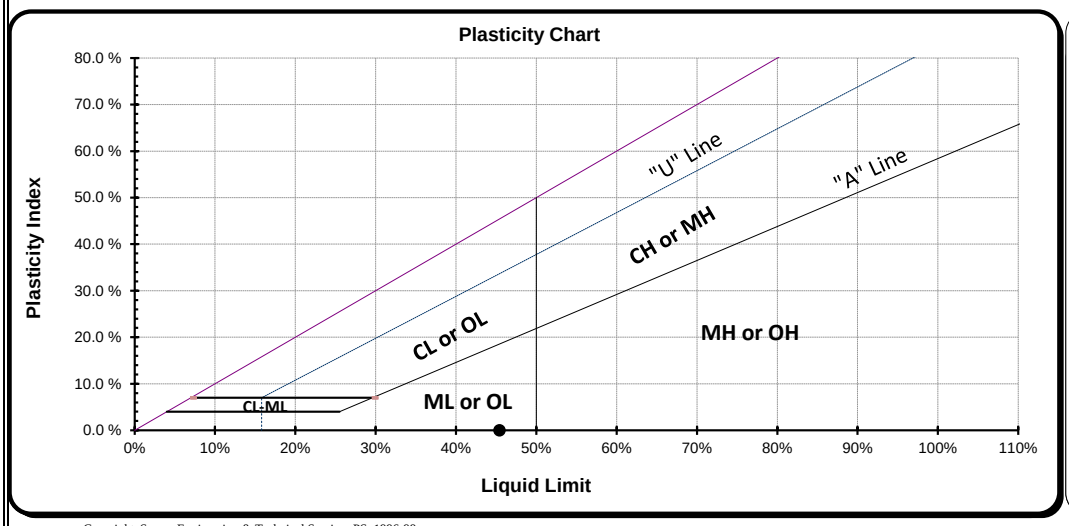
Liquid Limit Determination

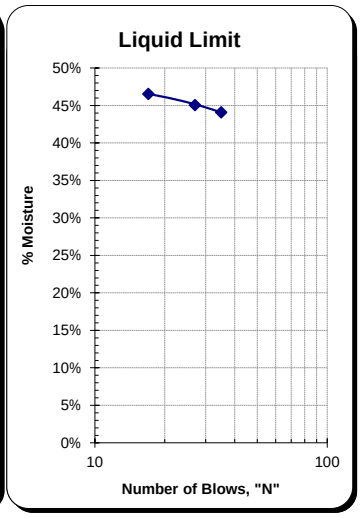
	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	30.08	30.17	33.04			
Weight of Dry Soils + Pan:	26.65	25.19	28.77			
Weight of Pan:	18.87	14.14	19.60			
Weight of Dry Soils:	7.78	11.05	9.17			
Weight of Moisture:	3.43	4.98	4.27			
% Moisture:	44.1 %	45.1 %	46.6 %			
Number of Blows:	35	27	17			

Liquid Limit @ 25 Blows:	45.4 %
Plastic Limit:	N/A
Plasticity Index, I_P:	N/A

Plastic Limit Determination

	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:						
Weight of Dry Soils + Pan:			**Non-Plastic**			
Weight of Pan:						
Weight of Dry Soils:						
Weight of Moisture:						
% Moisture:						





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Comments: **Sample was deemed to be non-plastic due to it not being workable down to 1/8" rolls/ribbons without breaking apart.**

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Client:	Anchor QEA, LLC.	**Date:**	December 9, 2024
Address:	1201 3rd Avenue, Suite 2600	**Project:**	Q.C. - Former Nord Door Cleanup
	Seattle, WA 98101	**Project #:**	24B105-03
Attn:	Jason Cornetta	**Sample #:**	B24-1844 - 1870
Revised On:		**Date sampled:**	August 19 & 21, 2024
		Control No:	12092024

As requested and authorized by the Client, MTC has performed the following test(s) on the sample number referenced above. The testing was performed in accordance with current, applicable AASHTO, ASTM, and/or WSDOT standards, which are referenced on the correlating test report pages. The results obtained in our laboratory are as detailed below and/or on the following pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
X	Sieve Analysis	See Attached Reports		Sulfate Soundness	
	Proctor			Bulk Density & Voids	
	Sand Equivalent			WSDOT Degradation	
	Fracture Count			LA Abrasion	
X	Moisture Content	See Attached Report		Cation Exchange Capacity	
	Specific Gravity, Coarse		X	Specific Gravity, Soils	See Attached Report
	Specific Gravity, Fine				
	Hydrometer Analysis				
X	Atterberg Limits	See Attached Reports			

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call the number below and ask to speak with your Project Manager or the Laboratory Manager.

Alex Eifrig

Respectfully Submitted,
Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Moisture Content ASTM C-566, ASTM D-2216

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: December 2, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: S. Boesenberg
Control No.: 12092024

Sample #	Location	Tare	Wet + Tare	Dry + Tare	Wgt. Of Moisture	Wgt. Of Soil	% Moisture
B24-1844	GT04 - 20 - 21.5	419.2	1303.3	1157.1	146.2	737.9	19.8%
B24-1845	GT04 - 25 - 26.5	234.5	987.0	849.5	137.5	615.0	22.4%
B24-1846	GT08 - 2.5 - 4	222.9	660.1	611.9	48.2	389.0	12.4%
B24-1847	GT08 - 5 - 6.5	233.0	326.5	292.8	33.7	59.8	56.4%
B24-1848	GT08 - 7.5 - 9	380.0	970.1	845.0	125.1	465.0	26.9%
B24-1849	GT08 - 10 - 11.5	423.4	689.1	636.1	53.0	212.7	24.9%
B24-1850	GT08 - 15 - 16.5	208.6	712.4	627.9	84.5	419.3	20.2%
B24-1851	GT08 - 30 - 31.5	416.9	1023.5	921.2	102.3	504.3	20.3%
B24-1852	GT08 - 35 - 36.5	379.8	1216.5	1083.0	133.5	703.2	19.0%
B24-1853	GT08 - 40 - 41.5	224.9	1212.8	1048.9	163.9	824.0	19.9%
B24-1855	GT05 - 5 - 5.3	221.0	318.6	315.2	3.4	94.2	3.6%
B24-1856	GT05 - 5.3 - 6.5	392.1	880.8	833.1	47.7	441.0	10.8%
B24-1857	GT05 - 7.5 - 9	222.4	1113.5	961.9	151.6	739.5	20.5%
B24-1858	GT05 - 10 - 10.5	229.3	466.9	427.5	39.4	198.2	19.9%
B24-1860	GT05 - 15 - 15.7	215.4	689.2	585.1	104.1	369.7	28.2%
B24-1861	GT05 - 15.7 - 16.5	270.0	310.9	299.4	11.5	29.4	39.1%
B24-1862	GT05 - 20 - 21.1	310.9	829.6	722.8	106.8	411.9	25.9%
B24-1863	GT05 - 21.1 - 22	303.3	432.1	410.7	21.4	107.4	19.9%
B24-1864	GT05 - 25 - 27	268.9	486.1	436.2	49.9	167.3	29.8%
B24-1865	GT05 - 30 - 32	300.9	761.6	687.2	74.4	386.3	19.3%
B24-1866	GT05 - 35 - 36.5	413.7	879.2	761.2	118.0	347.5	34.0%
B24-1867	GT05 - 40 - 42	414.3	764.1	699.3	64.8	285.0	22.7%
B24-1868	GT01 - 0 - 1.5	260.2	851.5	831.4	20.1	571.2	3.5%
B24-1869	GT01 - 2.5 - 3.9	415.4	1388.5	1232.9	155.6	817.5	19.0%
B24-1870	GT01 - 3.9 - 4.5	417.7	798.3	788.0	10.3	370.3	2.8%

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Specific Gravity of Soils, ASTM D-854

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: December 5 & 6, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: S. Boesenberg
Control. No.: 12092024

Sample #	Location	Tare	Dry Soil + Tare	Mass of Dry Soil	Pycno ID	Mass of Pycno	Volume of Pycno	Density of Water @ Tx	Mass of Pycno filled w/ water & soils	Mass of Pycno filled w/ water	Temp. of Water, 0.1 *C	SpG of Soils	Temp. Correction Factor	Corrected SpG
B24-1844	GT04 - 20 - 21.5	360.02	410.03	50.01	SA-050 (B-2)	92.08	249.31	0.99697	372.26	340.63	25.3	2.720213	0.99876	2.71683979
B24-1848	GT08 - 7.5 - 9	357.40	407.06	49.66	SA-050 (B-1)	91.89	249.27	0.99697	372.22	340.40	25.3	2.782897	0.99876	2.77944648
B24-1851	GT08 - 30 - 31.5	584.01	632.98	48.97	SA-050 (B-2)	92.08	249.31	0.99689	371.48	340.61	25.6	2.704831	0.99868	2.70126021
B24-1856	GT05 - 5.3 - 6.5	601.31	649.52	48.21	SA-050 (B-1)	91.89	249.27	0.99702	370.89	340.42	25.1	2.718020	0.99881	2.7147857
B24-1867	GT05 - 40 - 42	319.76	369.32	49.56	SA-050 (B-2)	92.08	249.31	0.99712	372.20	340.67	24.7	2.748449	0.99892	2.74548083
B24-1869	GT01 - 2.5 - 3.9	300.94	350.98	50.04	SA-050 (B-1)	91.89	249.27	0.99712	372.34	340.44	24.7	2.758225	0.99892	2.7552461

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24
Source:	GT08 - 10 - 11.5	**Tested By:**	R. Bohler
Sample#:	B24-1849	**Control No.:**	12092024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand
Sample Color:
Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.017	mm	% Gravel =	0.4%	Coeff. of Curvature, C_C = 1.19
$D_{(10)}$ =	0.035	mm	% Sand =	78.1%	Coeff. of Uniformity, C_U = 7.18
$D_{(15)}$ =	0.052	mm	% Silt & Clay =	21.5%	Fineness Modulus = 1.12
$D_{(30)}$ =	0.102	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.183	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.251	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	1.010	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	1/4		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		98%	100.0%	0.0%
#10	2.00	98%	98%	100.0%	0.0%
#16	1.18		91%	100.0%	0.0%
#20	0.850		89%	100.0%	0.0%
#30	0.600		87%	100.0%	0.0%
#40	0.425	86%	86%	100.0%	0.0%
#50	0.300		67%	100.0%	0.0%
#60	0.250		60%	100.0%	0.0%
#80	0.180		50%	100.0%	0.0%
#100	0.150	45%	45%	100.0%	0.0%
#140	0.106		31%	100.0%	0.0%
#170	0.090		26%	100.0%	0.0%
#200	0.075	21.5%	21.5%	100.0%	0.0%

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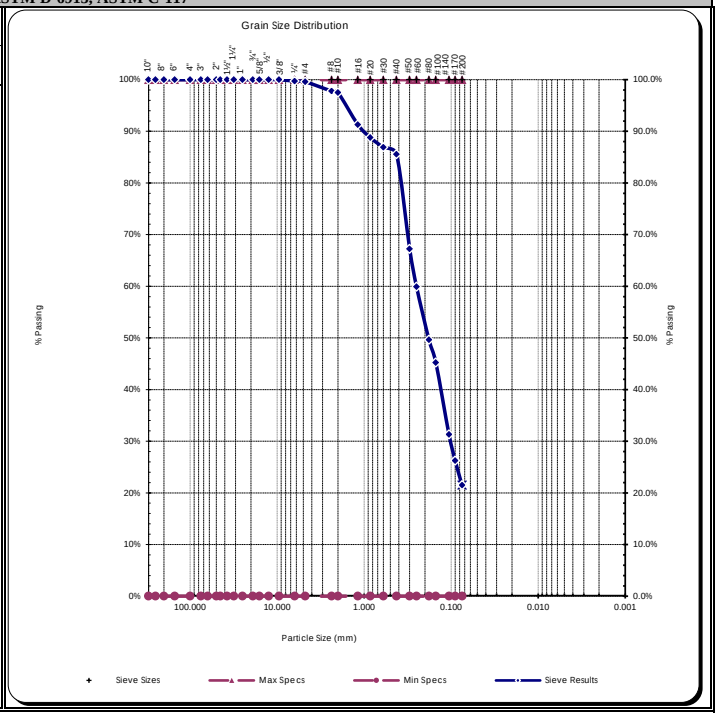

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24
Source:	GT08 - 35 - 36.5	**Tested By:**	R. Bohler
Sample#:	B24-1852	**Control No.:**	12092024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand
Sample Color:
Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.027	mm	% Gravel =	0.3%	Coeff. of Curvature, C_C = 1.01
$D_{(10)}$ =	0.054	mm	% Sand =	85.9%	Coeff. of Uniformity, C_U = 5.54
$D_{(15)}$ =	0.079	mm	% Silt & Clay =	13.8%	Fineness Modulus = 1.34
$D_{(30)}$ =	0.129	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.237	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.301	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	1.258	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	4/23		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		100%	100.0%	0.0%
#10	2.00	100%	100%	100.0%	0.0%
#16	1.18		89%	100.0%	0.0%
#20	0.850		85%	100.0%	0.0%
#30	0.600		82%	100.0%	0.0%
#40	0.425	79%	79%	100.0%	0.0%
#50	0.300		60%	100.0%	0.0%
#60	0.250		52%	100.0%	0.0%
#80	0.180		41%	100.0%	0.0%
#100	0.150	36%	36%	100.0%	0.0%
#140	0.106		23%	100.0%	0.0%
#170	0.090		18%	100.0%	0.0%
#200	0.075	13.8%	13.8%	100.0%	0.0%

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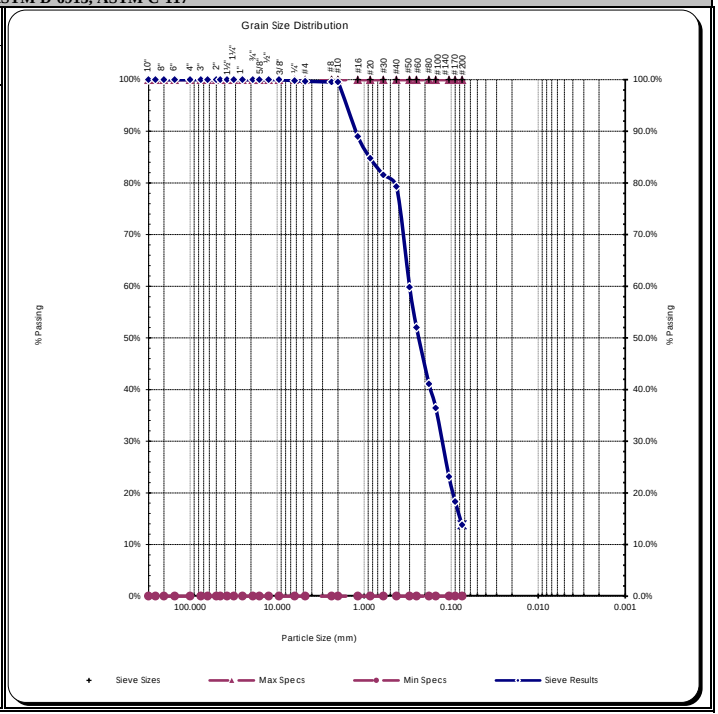

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Comments:

Reviewed by: Alex Eifrig
Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24
Source:	GT05 - 2.5 - 4	**Tested By:**	R. Bohler
Sample#:	B24-1854	**Control No.:**	12092024

Unified Soil Classification System, ASTM-2487
SP-SM, Poorly graded Sand with Silt
Sample Color:
Gray-Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.048	mm	% Gravel =	4.3%	Coeff. of Curvature, C_C =	1.36
$D_{(10)}$ =	0.103	mm	% Sand =	87.9%	Coeff. of Uniformity, C_U =	3.71
$D_{(15)}$ =	0.157	mm	% Silt & Clay =	7.8%	Fineness Modulus =	2.09
$D_{(30)}$ =	0.232	mm	Liquid Limit =	n/a	Plastic Limit =	n/a
$D_{(50)}$ =	0.333	mm	Plasticity Index =	n/a	Moisture %, as sampled =	n/a
$D_{(60)}$ =	0.383	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =	
$D_{(90)}$ =	2.016	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =	
Dust Ratio =	5/44		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =	

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	99%	99%	100.0%	0.0%
3/8"	9.50	98%	98%	100.0%	0.0%
1/4"	6.30		97%	100.0%	0.0%
#4	4.75	96%	96%	100.0%	0.0%
#8	2.36		91%	100.0%	0.0%
#10	2.00	90%	90%	100.0%	0.0%
#16	1.18		79%	100.0%	0.0%
#20	0.850		74%	100.0%	0.0%
#30	0.600		71%	100.0%	0.0%
#40	0.425	68%	68%	100.0%	0.0%
#50	0.300		43%	100.0%	0.0%
#60	0.250		34%	100.0%	0.0%
#80	0.180		20%	100.0%	0.0%
#100	0.150	14%	14%	100.0%	0.0%
#140	0.106		10%	100.0%	0.0%
#170	0.090		9%	100.0%	0.0%
#200	0.075	7.8%	7.8%	100.0%	0.0%

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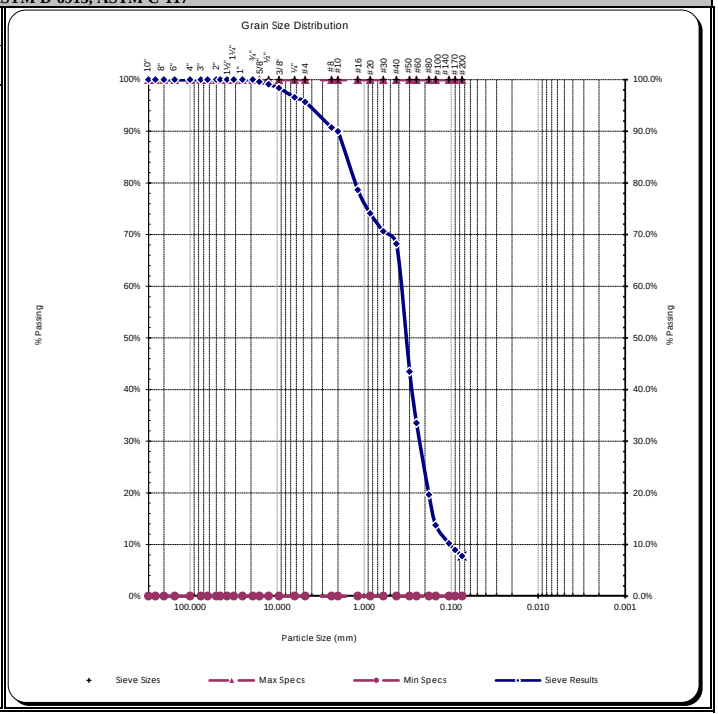

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24
Source:	GT05 - 10.5 - 12	**Tested By:**	R. Bohler
Sample#:	B24-1859	**Control No.:**	12092024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand
Sample Color:
Gray

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.029	mm	% Gravel =	0.0%	Coeff. of Curvature, C_C = 1.44
$D_{(10)}$ =	0.057	mm	% Sand =	86.9%	Coeff. of Uniformity, C_U = 4.97
$D_{(15)}$ =	0.084	mm	% Silt & Clay =	13.1%	Fineness Modulus = 1.19
$D_{(30)}$ =	0.154	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.241	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.285	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	0.417	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	1/7		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		100%	100.0%	0.0%
#10	2.00	100%	100%	100.0%	0.0%
#16	1.18		96%	100.0%	0.0%
#20	0.850		94%	100.0%	0.0%
#30	0.600		93%	100.0%	0.0%
#40	0.425	92%	92%	100.0%	0.0%
#50	0.300		63%	100.0%	0.0%
#60	0.250		52%	100.0%	0.0%
#80	0.180		36%	100.0%	0.0%
#100	0.150	29%	29%	100.0%	0.0%
#140	0.106		20%	100.0%	0.0%
#170	0.090		16%	100.0%	0.0%
#200	0.075	13.1%	13.1%	100.0%	0.0%

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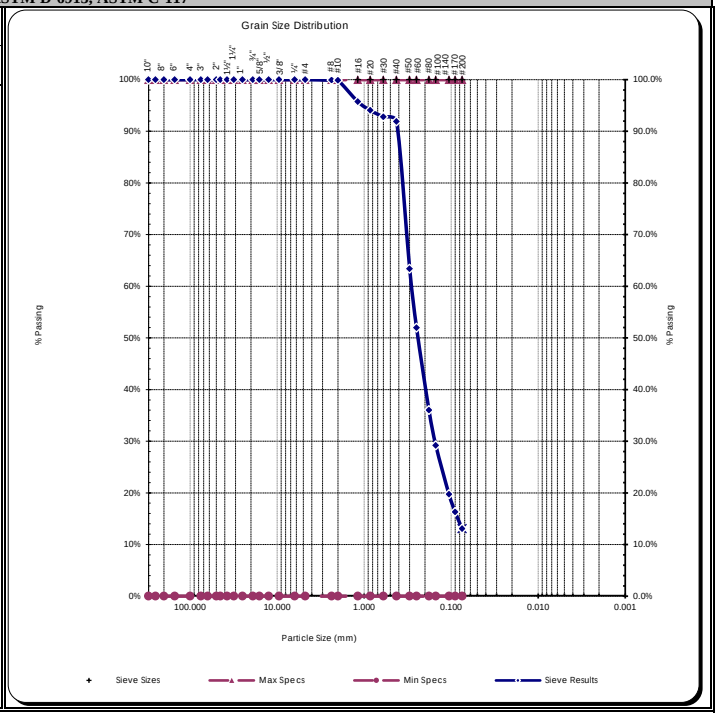

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

ASTM D-4318 Liquid Limit, Plastic Limit & Plasticity Index of Soils

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Visual Soils Classification**	
Project #:	24B105-03	**Sampled By:**	Client	Silt with Sand	
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24	**Sample Color**	
Source:	GT05 - 15.7 - 16.5	**Tested By:**	Z. Romney	Gray-Brown	
Sample #:	B24-1861	**Control No.:**	12092024		

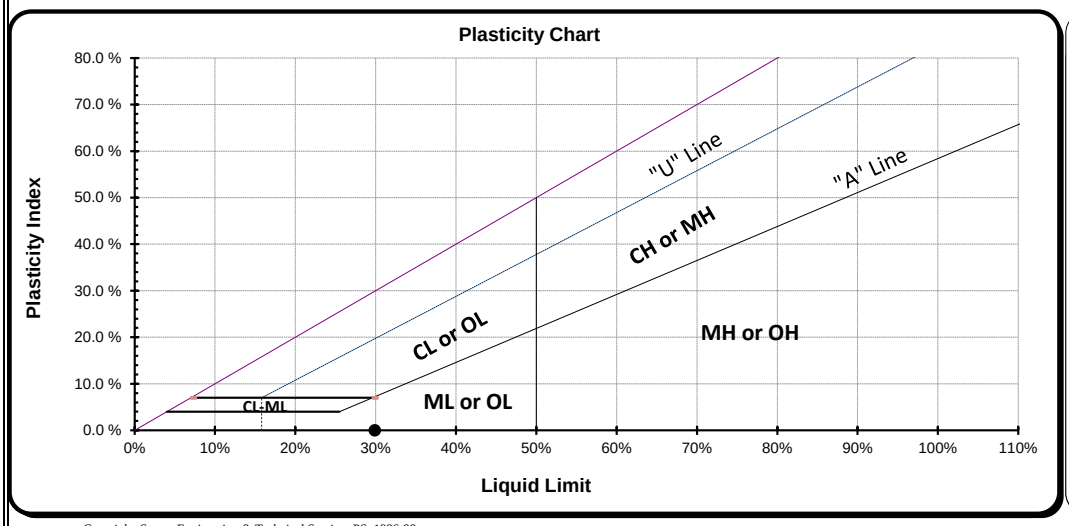
Liquid Limit Determination

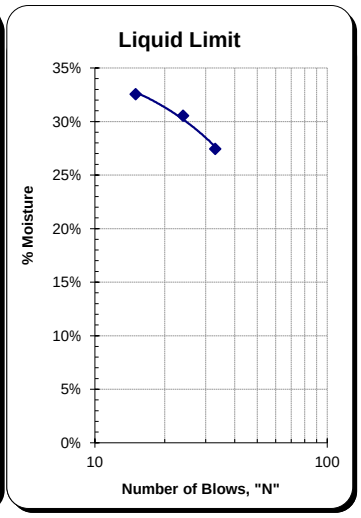
	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	36.41	32.40	37.36			
Weight of Dry Soils + Pan:	32.53	28.13	32.84			
Weight of Pan:	18.40	14.15	18.96			
Weight of Dry Soils:	14.13	13.98	13.88			
Weight of Moisture:	3.88	4.27	4.52			
% Moisture:	27.5 %	30.5 %	32.6 %			
Number of Blows:	33	24	15			

Liquid Limit @ 25 Blows: 29.9 %
Plastic Limit: N/A
Plasticity Index, I_P: N/A

Plastic Limit Determination

	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:						
Weight of Dry Soils + Pan:			**Non-Plastic**			
Weight of Pan:						
Weight of Dry Soils:						
Weight of Moisture:						
% Moisture:						





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Comments: **Sample was deemed to be non-plastic due to the material not being workable down to 1/8" ribbons/rolls without breaking apart.**

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Visual Soils Classification**	
Project #:	24B105-03	**Sampled By:**	Client	Silty Sand with Clay	
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24	**Sample Color:**	
Source:	GT05 - 35 - 36.5	**Tested By:**	R. Bohler	Gray-Brown	
Sample#:	B24-1866	**Control No.:**	12092024		

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.007	mm	% Gravel =	0.1%	Coeff. of Curvature, C_C = 1.39
$D_{(10)}$ =	0.014	mm	% Sand =	46.4%	Coeff. of Uniformity, C_U = 6.46
$D_{(15)}$ =	0.021	mm	% Silt & Clay =	53.5%	Fineness Modulus = 0.28
$D_{(30)}$ =	0.042	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.070	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.091	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	0.262	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	28/51		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		100%	100.0%	0.0%
#10	2.00	100%	100%	100.0%	0.0%
#16	1.18		98%	100.0%	0.0%
#20	0.850		98%	100.0%	0.0%
#30	0.600		98%	100.0%	0.0%
#40	0.425	97%	97%	100.0%	0.0%
#50	0.300		92%	100.0%	0.0%
#60	0.250		89%	100.0%	0.0%
#80	0.180		86%	100.0%	0.0%
#100	0.150	85%	85%	100.0%	0.0%
#140	0.106		66%	100.0%	0.0%
#170	0.090		60%	100.0%	0.0%
#200	0.075	53.5%	53.5%	100.0%	0.0%

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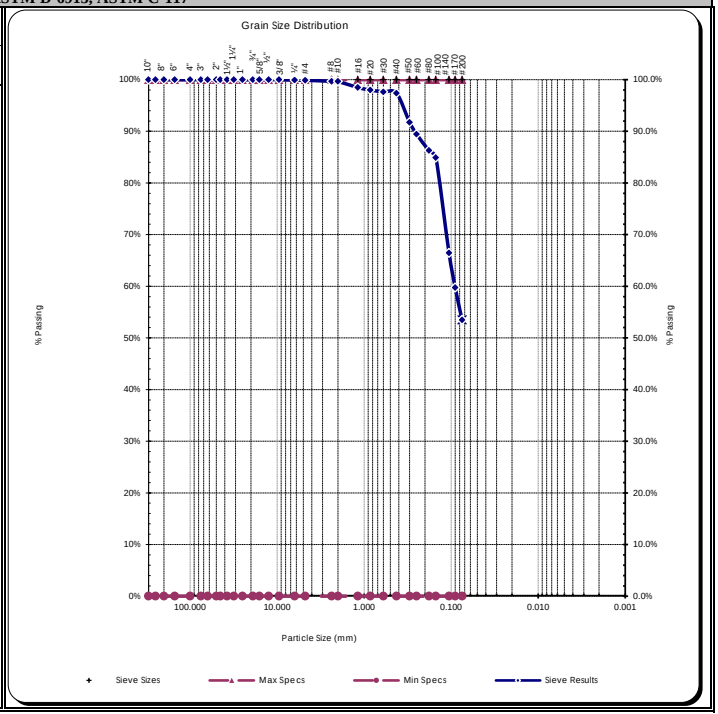

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

ASTM D-4318 Liquid Limit, Plastic Limit & Plasticity Index of Soils

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Visual Soils Classification**	
Project #:	24B105-03	**Sampled By:**	Client	Silty Sand with Clay	
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24	**Sample Color**	
Source:	GT05 - 35 - 36.5	**Tested By:**	Z. Romney	Gray-Brown	
Sample #:	B24-1866	**Control No.:**	12092024		

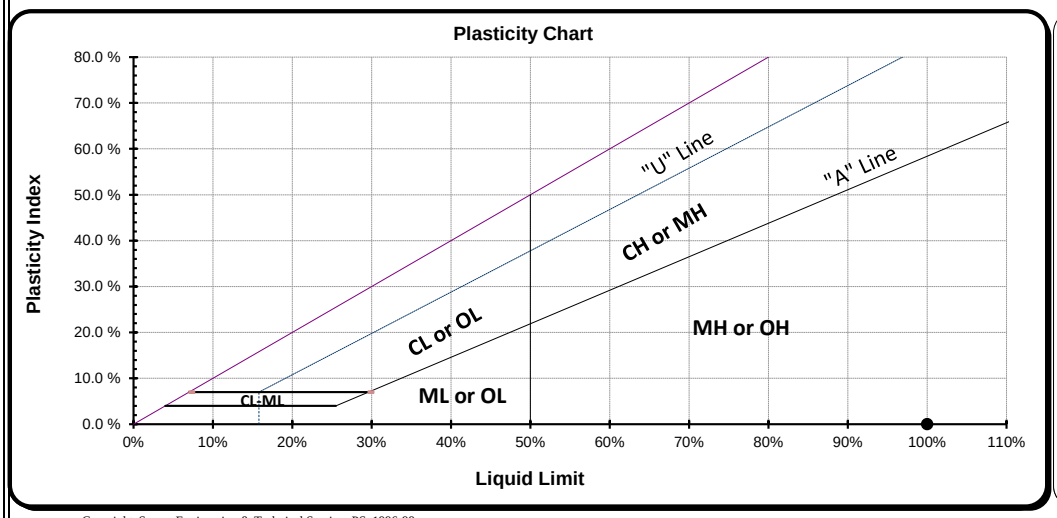
Liquid Limit Determination

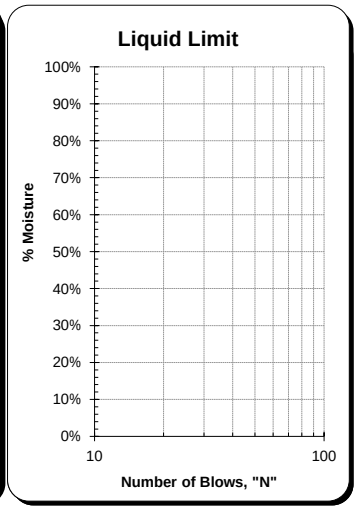
	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:						
Weight of Dry Soils + Pan:			**Unable to Establish**			
Weight of Pan:						
Weight of Dry Soils:						
Weight of Moisture:						
% Moisture:						
Number of Blows:						

Liquid Limit @ 25 Blows: N/A
Plastic Limit: N/A
Plasticity Index, I_P: N/A

Plastic Limit Determination

	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:						
Weight of Dry Soils + Pan:			**Non-Plastic**			
Weight of Pan:						
Weight of Dry Soils:						
Weight of Moisture:						
% Moisture:						





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Comments: **Unable to establish the liquid limit of this sample due to the material not spreading smoothly into the cup, and displaying rapid dilation when subjected to any blows in the cup. The sample was then deemed to be non-plastic due to the material not being workable down to 1/8" ribbons/rolls without breaking apart.**

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24
Source:	GT05 - 40 - 42	**Tested By:**	R. Bohler
Sample#:	B24-1867	**Control No.:**	12092024

Unified Soils Classification System, ASTM D-2487
SM, Silty Sand
Sample Color:
Gray

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ = 0.021	mm	% Gravel = 0.3%	Coeff. of Curvature, C_C = 1.57
$D_{(10)}$ = 0.042	mm	% Sand = 81.6%	Coeff. of Uniformity, C_U = 7.02
$D_{(15)}$ = 0.062	mm	% Silt & Clay = 18.0%	Fineness Modulus = 1.27
$D_{(30)}$ = 0.138	mm	Liquid Limit = n/a	Plastic Limit = n/a
$D_{(50)}$ = 0.241	mm	Plasticity Index = n/a	Moisture %, as sampled = n/a
$D_{(60)}$ = 0.292	mm	Sand Equivalent = n/a	Req'd Sand Equivalent =
$D_{(90)}$ = 0.896	mm	Fracture %, 1 Face = n/a	Req'd Fracture %, 1 Face =
Dust Ratio = 13/62		Fracture %, 2+ Faces = n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		99%	100.0%	0.0%
#10	2.00	99%	99%	100.0%	0.0%
#16	1.18		92%	100.0%	0.0%
#20	0.850		90%	100.0%	0.0%
#30	0.600		87%	100.0%	0.0%
#40	0.425	86%	86%	100.0%	0.0%
#50	0.300		62%	100.0%	0.0%
#60	0.250		52%	100.0%	0.0%
#80	0.180		38%	100.0%	0.0%
#100	0.150	32%	32%	100.0%	0.0%
#140	0.106		24%	100.0%	0.0%
#170	0.090		21%	100.0%	0.0%
#200	0.075	18.0%	18.0%	100.0%	0.0%

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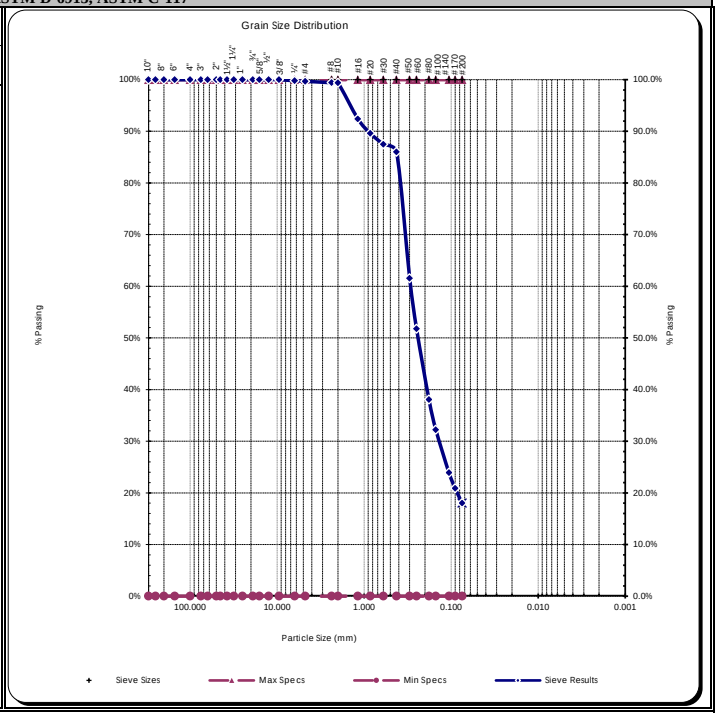

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	6-Dec-24
Source:	GT01 - 3.9 - 4.5	**Tested By:**	R. Bohler
Sample#:	B24-1870	**Control No.:**	12092024

Unified Soils Classification System, ASTM D-2487
SM, Silty Sand
Sample Color:
Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.031	mm	% Gravel =	4.6%	Coeff. of Curvature, C_C = 1.25
$D_{(10)}$ =	0.062	mm	% Sand =	83.3%	Coeff. of Uniformity, C_U = 11.74
$D_{(15)}$ =	0.104	mm	% Silt & Clay =	12.1%	Fineness Modulus = 2.29
$D_{(30)}$ =	0.237	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.404	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.726	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	1.931	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	3/13		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	98%	98%	100.0%	0.0%
1/4"	6.30		96%	100.0%	0.0%
#4	4.75	95%	95%	100.0%	0.0%
#8	2.36		92%	100.0%	0.0%
#10	2.00	92%	92%	100.0%	0.0%
#16	1.18		71%	100.0%	0.0%
#20	0.850		63%	100.0%	0.0%
#30	0.600		57%	100.0%	0.0%
#40	0.425	52%	52%	100.0%	0.0%
#50	0.300		38%	100.0%	0.0%
#60	0.250		32%	100.0%	0.0%
#80	0.180		23%	100.0%	0.0%
#100	0.150	20%	20%	100.0%	0.0%
#140	0.106		15%	100.0%	0.0%
#170	0.090		14%	100.0%	0.0%
#200	0.075	12.1%	12.1%	100.0%	0.0%

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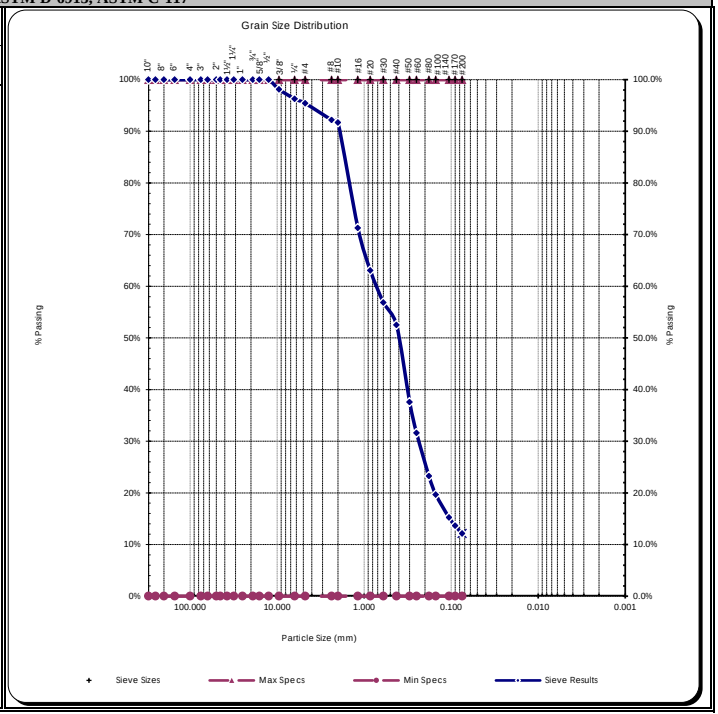

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Client:	Anchor QEA, LLC.	**Date:**	December 11, 2024
Address:	1201 3rd Avenue, Suite 2600	**Project:**	Q.C. - Former Nord Door Cleanup
	Seattle, WA 98101	**Project #:**	24B105-03
Attn:	Jason Cornetta	**Sample #:**	B24-1871 - 1896
Revised On:		**Date sampled:**	August 21 & 22, 2024
		Control No:	12112024

As requested and authorized by the Client, MTC has performed the following test(s) on the sample number referenced above. The testing was performed in accordance with current, applicable AASHTO, ASTM, and/or WSDOT standards, which are referenced on the correlating test report pages. The results obtained in our laboratory are as detailed below and/or on the following pages:

	Test(s) Performed:	Test Results		Test(s) Performed:	Test Results
X	Sieve Analysis	See Attached Reports		Sulfate Soundness	
	Proctor			Bulk Density & Voids	
	Sand Equivalent			WSDOT Degradation	
	Fracture Count			LA Abrasion	
X	Moisture Content	See Attached Reports		Cation Exchange Capacity	
	Specific Gravity, Coarse		X	Specific Gravity, Soils	See Attached Report
	Specific Gravity, Fine				
	Hydrometer Analysis				
X	Atterberg Limits	See Attached Reports			

If you have any questions concerning the test results, the procedures used, or if we can be of any further assistance please call the number below and ask to speak with your Project Manager or the Laboratory Manager.

Alex Eifrig

Respectfully Submitted,
Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Moisture Content ASTM C-566, ASTM D-2216

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: December 5, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: S. Boesenberg
Control No.: 12112024

Sample #	Location	Tare	Wet + Tare	Dry + Tare	Wgt. Of Moisture	Wgt. Of Soil	% Moisture
B24-1871	GT01 - 5 - 6.5	222.9	264.7	264.5	0.2	41.6	0.5%
B24-1872	GT01 - 7.5 - 9	234.6	653.0	626.8	26.2	392.2	6.7%
B24-1873	GT01 - 10 - 11.5	224.9	475.2	456.1	19.1	231.2	8.3%
B24-1874	GT01 - 15 - 16.5	229.3	887.2	754.2	133.0	524.9	25.3%
B24-1875	GT06 - 0 - 1.5	222.4	592.0	576.1	15.9	353.7	4.5%
B24-1876	GT06 - 2.5 - 4	215.4	867.1	830.8	36.3	615.4	5.9%
B24-1877	GT06 - 5 - 6.5	220.8	342.6	334.5	8.1	113.7	7.1%
B24-1878	GT06 - 7.5 - 9	232.9	574.3	516.6	57.7	283.7	20.3%
B24-1879	GT06 - 10 - 11.5	208.6	286.7	271.3	15.4	62.7	24.6%
B24-1880	GT06 - 15 - 16.5	303.9	453.8	425.2	28.6	121.3	23.6%
B24-1881	GT06 - 25 - 16.5	306.3	756.5	660.0	96.5	353.7	27.3%
B24-1882	GT06 - 30 - 31.5	300.8	951.0	823.8	127.2	523.0	24.3%
B24-1883	GT06 - 40 - 41.5	268.7	767.6	680.0	87.6	411.3	21.3%
B24-1884	GT07 - 0 - 2.5	260.2	620.5	609.5	11.0	349.3	3.1%
B24-1885	GT07 - 2.5 - 2.9	310.9	549.0	499.5	49.5	188.6	26.2%
B24-1886	GT07 - 2.9 - 4	303.2	763.3	737.7	25.6	434.5	5.9%
B24-1887	GT07 - 5 - 5.2	301.0	395.0	388.5	6.5	87.5	7.4%
B24-1888	GT07 - 5.2 - 6	301.0	345.5	332.8	12.7	31.8	39.9%
B24-1889	GT07 - 6 - 6.4	266.4	454.4	430.7	23.7	164.3	14.4%
B24-1890	GT07 - 10 - 11.5	319.9	528.1	442.5	85.6	122.6	69.8%
B24-1891	GT07 - 15 - 16.5	336.3	644.0	581.4	62.6	245.1	25.5%
B24-1892	GT07 - 20 - 21.5	270.1	344.4	314.5	29.9	44.4	67.3%
B24-1893	GT07 - 25 - 26.5	423.4	715.2	662.4	52.8	239.0	22.1%
B24-1894	GT07 - 30 - 31.5	493.1	1282.7	1122.1	160.6	629.0	25.5%
B24-1895	GT07 - 35 - 36.5	420.5	654.1	610.1	44.0	189.6	23.2%

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Moisture Content ASTM C-566, ASTM D-2216

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: December 5, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: S. Boesenberg
Control No.: 12112024

Sample #	Location	Tare	Wet + Tare	Dry + Tare	Wgt. Of Moisture	Wgt. Of Soil	% Moisture
B24-1896	GT07 - 40 - 41.5	356.9	946.9	854.9	92.0	498.0	18.5%

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	10-Dec-24
Source:	GT01 - 7.5 - 9	**Tested By:**	R. Bohler
Sample#:	B24-1872	**Control No.:**	12112024

Unified Soil Classification System, ASTM-2487
SM, Silty Sand with Gravel
Sample Color:
Gray-Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.031	mm	% Gravel =	18.7%	Coeff. of Curvature, C_C = 1.38
$D_{(10)}$ =	0.062	mm	% Sand =	69.1%	Coeff. of Uniformity, C_U = 27.95
$D_{(15)}$ =	0.124	mm	% Silt & Clay =	12.1%	Fineness Modulus = 3.30
$D_{(30)}$ =	0.385	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	1.260	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	1.731	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	7.834	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	3/8		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		98%	100.0%	0.0%
1/2"	12.50	97%	97%	100.0%	0.0%
3/8"	9.50	95%	95%	100.0%	0.0%
1/4"	6.30		86%	100.0%	0.0%
#4	4.75	81%	81%	100.0%	0.0%
#8	2.36		68%	100.0%	0.0%
#10	2.00	66%	66%	100.0%	0.0%
#16	1.18		48%	100.0%	0.0%
#20	0.850		41%	100.0%	0.0%
#30	0.600		36%	100.0%	0.0%
#40	0.425	32%	32%	100.0%	0.0%
#50	0.300		25%	100.0%	0.0%
#60	0.250		22%	100.0%	0.0%
#80	0.180		18%	100.0%	0.0%
#100	0.150	17%	17%	100.0%	0.0%
#140	0.106		14%	100.0%	0.0%
#170	0.090		13%	100.0%	0.0%
#200	0.075	12.1%	12.1%	100.0%	0.0%

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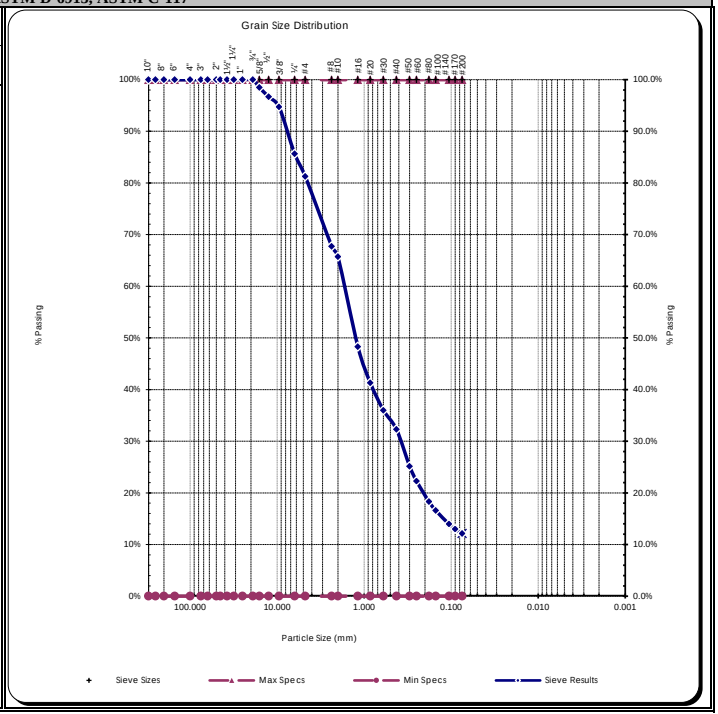

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Specific Gravity of Soils, ASTM D-854

Project: Q.C. - Former Nord Door Cleanup
Project #: 24B105-03
Date Received: November 22, 2024
Date Tested: December 9 & 10, 2024

Client: Anchor QEA, LLC.
Sampled by: Client
Tested by: S. Boesenberg
Control. No.: 12112024

Sample #	Location	Tare	Dry Soil + Tare	Mass of Dry Soil	Pycno ID	Mass of Pycno	Volume of Pycno	Density of Water @ Tx	Mass of Pycno filled w/ water & soils	Mass of Pycno filled w/ water	Temp. of Water, 0.1 *C	SpG of Soils	Temp. Correction Factor	Corrected SpG
B24-1877	GT06 - 5 - 6.5	303.74	353.30	49.56	SA-050 (B-1)	91.89	249.27	0.99697	371.87	340.40	25.3	2.738922	0.99876	2.73552549
B24-1879	GT06 - 10 - 11.5	301.05	350.71	49.66	SA-050 (B-2)	92.08	249.31	0.99702	371.80	340.65	25.1	2.683301	0.99881	2.68010774
B24-1892	GT07 - 20 - 21.5	266.35	314.72	48.37	SA-050 (B-1)	91.89	249.27	0.99692	371.14	340.39	25.5	2.744826	0.99871	2.74128486
B24-1895	GT07 - 35 - 36.5	260.20	309.78	49.58	SA-050 (B-2)	92.08	249.31	0.99697	372.39	340.63	25.3	2.781551	0.99876	2.77810142

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	10-Dec-24
Source:	GT06 - 30 - 31.5	**Tested By:**	R. Bohler
Sample#:	B24-1882	**Control No.:**	12112024

Unified Soil Classification System, ASTM-2487
SC-SM, Silty, Clayey Sand
Sample Color:
Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ = 0.019	mm	% Gravel = 0.0%	Coeff. of Curvature, C_C = 1.72
$D_{(10)}$ = 0.037	mm	% Sand = 79.7%	Coeff. of Uniformity, C_U = 9.85
$D_{(15)}$ = 0.056	mm	% Silt & Clay = 20.3%	Fineness Modulus = 1.64
$D_{(30)}$ = 0.152	mm	Liquid Limit = n/a	Plastic Limit = n/a
$D_{(50)}$ = 0.294	mm	Plasticity Index = n/a	Moisture %, as sampled = n/a
$D_{(60)}$ = 0.365	mm	Sand Equivalent = n/a	Req'd Sand Equivalent =
$D_{(90)}$ = 1.506	mm	Fracture %, 1 Face = n/a	Req'd Fracture %, 1 Face =
Dust Ratio = 21/71		Fracture %, 2+ Faces = n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		100%	100.0%	0.0%
#4	4.75	100%	100%	100.0%	0.0%
#8	2.36		100%	100.0%	0.0%
#10	2.00	100%	100%	100.0%	0.0%
#16	1.18		84%	100.0%	0.0%
#20	0.850		77%	100.0%	0.0%
#30	0.600		72%	100.0%	0.0%
#40	0.425	69%	69%	100.0%	0.0%
#50	0.300		51%	100.0%	0.0%
#60	0.250		44%	100.0%	0.0%
#80	0.180		34%	100.0%	0.0%
#100	0.150	30%	30%	100.0%	0.0%
#140	0.106		24%	100.0%	0.0%
#170	0.090		22%	100.0%	0.0%
#200	0.075	20.3%	20.3%	100.0%	0.0%

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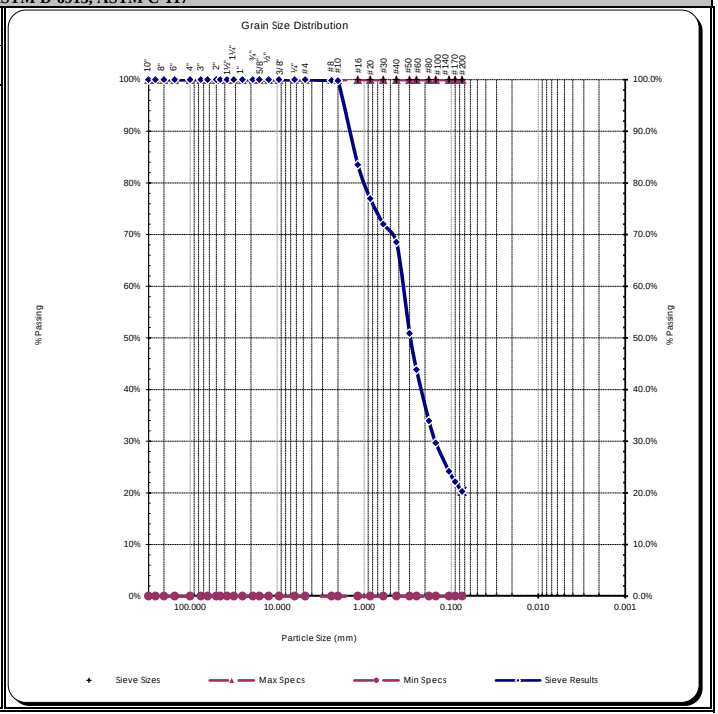

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

ASTM D-4318 Liquid Limit, Plastic Limit & Plasticity Index of Soils

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Unified Soils Classification System, ASTM D-2487**	
Project #:	24B105-03	**Sampled By:**	Client	ML, Clayey Silt with Sand	
Client:	Anchor QEA, LLC.	**Date Tested:**	10-Dec-24	**Sample Color**	
Source:	GT07 - 5.2 - 6	**Tested By:**	Z. Romney	Gray-Brown	
Sample #:	B24-1888	**Control No.:**	12112024		

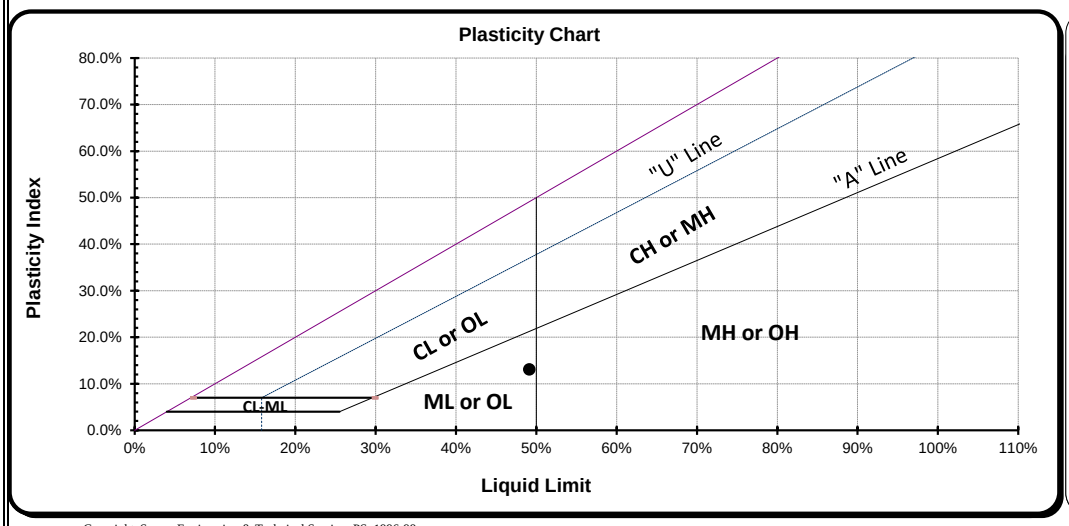
Liquid Limit Determination

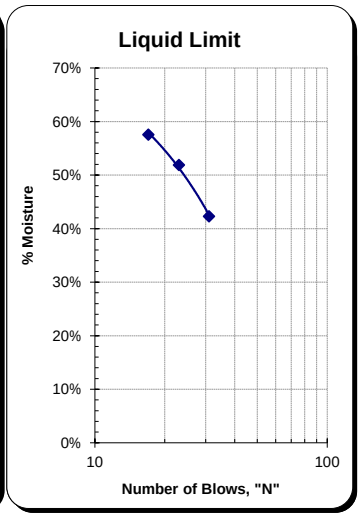
	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	36.48	34.98	34.82			
Weight of Dry Soils + Pan:	31.30	30.60	29.26			
Weight of Pan:	19.05	22.16	19.60			
Weight of Dry Soils:	12.25	8.44	9.66			
Weight of Moisture:	5.18	4.38	5.56			
% Moisture:	42.3 %	51.9 %	57.6 %			
Number of Blows:	31	23	17			

Liquid Limit @ 25 Blows:	49.1 %
Plastic Limit:	36.0 %
Plasticity Index, I_P:	13.1%

Plastic Limit Determination

	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	26.35	27.22				
Weight of Dry Soils + Pan:	24.53	25.21				
Weight of Pan:	19.48	19.61				
Weight of Dry Soils:	5.05	5.60				
Weight of Moisture:	1.82	2.01				
% Moisture:	36.0 %	35.9 %				





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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

Sieve Report

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24
Project #:	24B105-03	**Sampled By:**	Client
Client:	Anchor QEA, LLC.	**Date Tested:**	10-Dec-24
Source:	GT07 - 15 - 16.5	**Tested By:**	R. Bohler
Sample#:	B24-1891	**Control No.:**	12112024

Unified Soil Classification System, ASTM-2487
SP-SM, Poorly graded Sand with Silt
Sample Color:
Gray-Brown

Method(s) ASTM D-2216, ASTM D-2419, ASTM D4318, ASTM D-5281

Specifications
No Specs
Sample Meets Specs ? N/A

$D_{(5)}$ =	0.054	mm	% Gravel =	1.2%	Coeff. of Curvature, C_C = 1.30
$D_{(10)}$ =	0.108	mm	% Sand =	91.8%	Coeff. of Uniformity, C_U = 3.65
$D_{(15)}$ =	0.156	mm	% Silt & Clay =	7.0%	Fineness Modulus = 1.96
$D_{(30)}$ =	0.235	mm	Liquid Limit =	n/a	Plastic Limit = n/a
$D_{(50)}$ =	0.340	mm	Plasticity Index =	n/a	Moisture %, as sampled = n/a
$D_{(60)}$ =	0.393	mm	Sand Equivalent =	n/a	Req'd Sand Equivalent =
$D_{(90)}$ =	1.620	mm	Fracture %, 1 Face =	n/a	Req'd Fracture %, 1 Face =
Dust Ratio =	2/19		Fracture %, 2+ Faces =	n/a	Req'd Fracture %, 2+ Faces =

Method(s) ASTM C-136, ASTM D-6913, ASTM C-117

Sieve Size US	Sieve Size Metric	Actual Cumulative Percent Passing	Interpolated Cumulative Percent Passing	Specs Max	Specs Min
12.00"	300.00		100%	100.0%	0.0%
10.00"	250.00		100%	100.0%	0.0%
8.00"	200.00		100%	100.0%	0.0%
6.00"	150.00		100%	100.0%	0.0%
4.00"	100.00		100%	100.0%	0.0%
3.00"	75.00		100%	100.0%	0.0%
2.50"	63.00		100%	100.0%	0.0%
2.00"	50.00	100%	100%	100.0%	0.0%
1.75"	45.00		100%	100.0%	0.0%
1.50"	37.50		100%	100.0%	0.0%
1.25"	31.50		100%	100.0%	0.0%
1.00"	25.00	100%	100%	100.0%	0.0%
3/4"	19.00	100%	100%	100.0%	0.0%
5/8"	16.00		100%	100.0%	0.0%
1/2"	12.50	100%	100%	100.0%	0.0%
3/8"	9.50	100%	100%	100.0%	0.0%
1/4"	6.30		99%	100.0%	0.0%
#4	4.75	99%	99%	100.0%	0.0%
#8	2.36		98%	100.0%	0.0%
#10	2.00	98%	98%	100.0%	0.0%
#16	1.18		81%	100.0%	0.0%
#20	0.850		75%	100.0%	0.0%
#30	0.600		70%	100.0%	0.0%
#40	0.425	66%	66%	100.0%	0.0%
#50	0.300		42%	100.0%	0.0%
#60	0.250		33%	100.0%	0.0%
#80	0.180		20%	100.0%	0.0%
#100	0.150	14%	14%	100.0%	0.0%
#140	0.106		10%	100.0%	0.0%
#170	0.090		8%	100.0%	0.0%
#200	0.075	7.0%	7.0%	100.0%	0.0%

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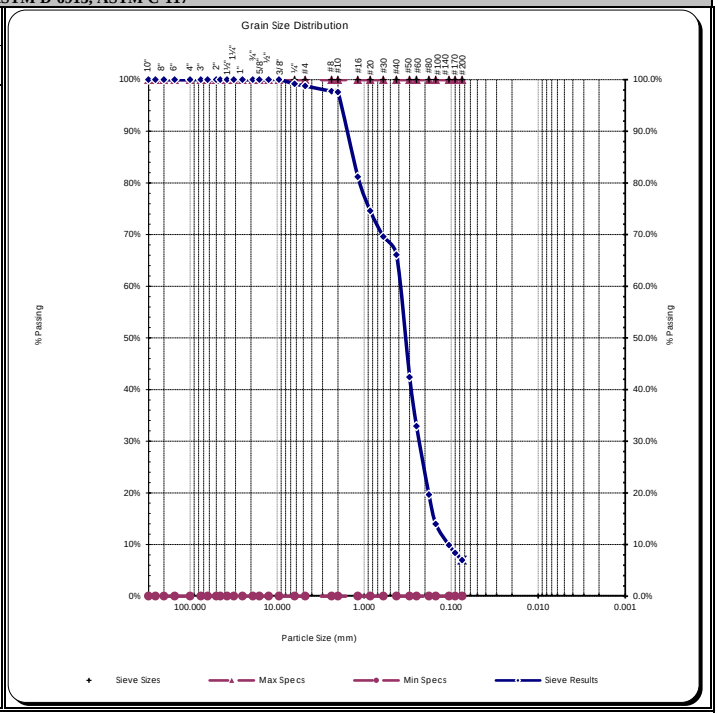

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Comments:

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician

MATERIALS TESTING & CONSULTING, INC.

ASTM D-4318 Liquid Limit, Plastic Limit & Plasticity Index of Soils

Project:	Q.C. - Former Nord Door Cleanup	**Date Received:**	22-Nov-24	**Visual Soils Classification**	
Project #:	24B105-03	**Sampled By:**	Client	Silt with Sand and Clay	
Client:	Anchor QEA, LLC.	**Date Tested:**	10-Dec-24	**Sample Color**	
Source:	GT07 - 20 - 21.5	**Tested By:**	Z. Romney	Brown	
Sample #:	B24-1892	**Control No.:**	12112024		

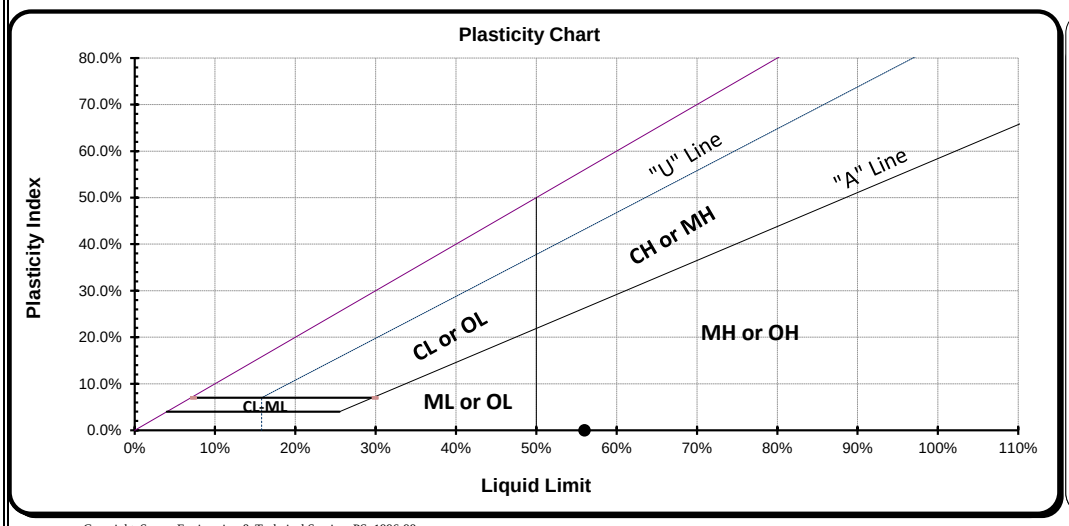
Liquid Limit Determination

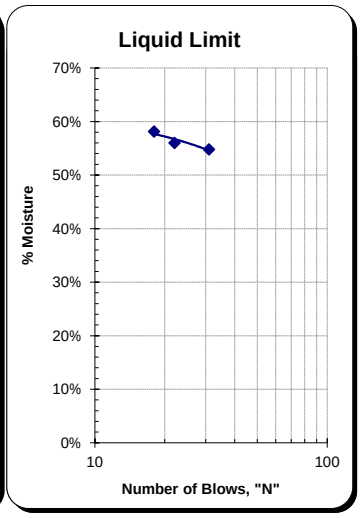
	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:	28.80	31.90	30.78			
Weight of Dry Soils + Pan:	23.61	27.25	26.61			
Weight of Pan:	14.14	18.95	19.44			
Weight of Dry Soils:	9.47	8.30	7.17			
Weight of Moisture:	5.19	4.65	4.17			
% Moisture:	54.8 %	56.0 %	58.2 %			
Number of Blows:	31	22	18			

Liquid Limit @ 25 Blows:	56.0 %
Plastic Limit:	N/A
Plasticity Index, I_P:	N/A

Plastic Limit Determination

	#1	#2	#3	#4	#5	#6
Weight of Wet Soils + Pan:						
Weight of Dry Soils + Pan:			**Non-Plastic**			
Weight of Pan:						
Weight of Dry Soils:						
Weight of Moisture:						
% Moisture:						





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Comments: **Sample was deemed to be non-plastic due to the material not being workable down to 1/8" ribbons/rolls without breaking apart.**

Reviewed by: Alex Eifrig

Alex Eifrig
WABO Supervising Laboratory Technician