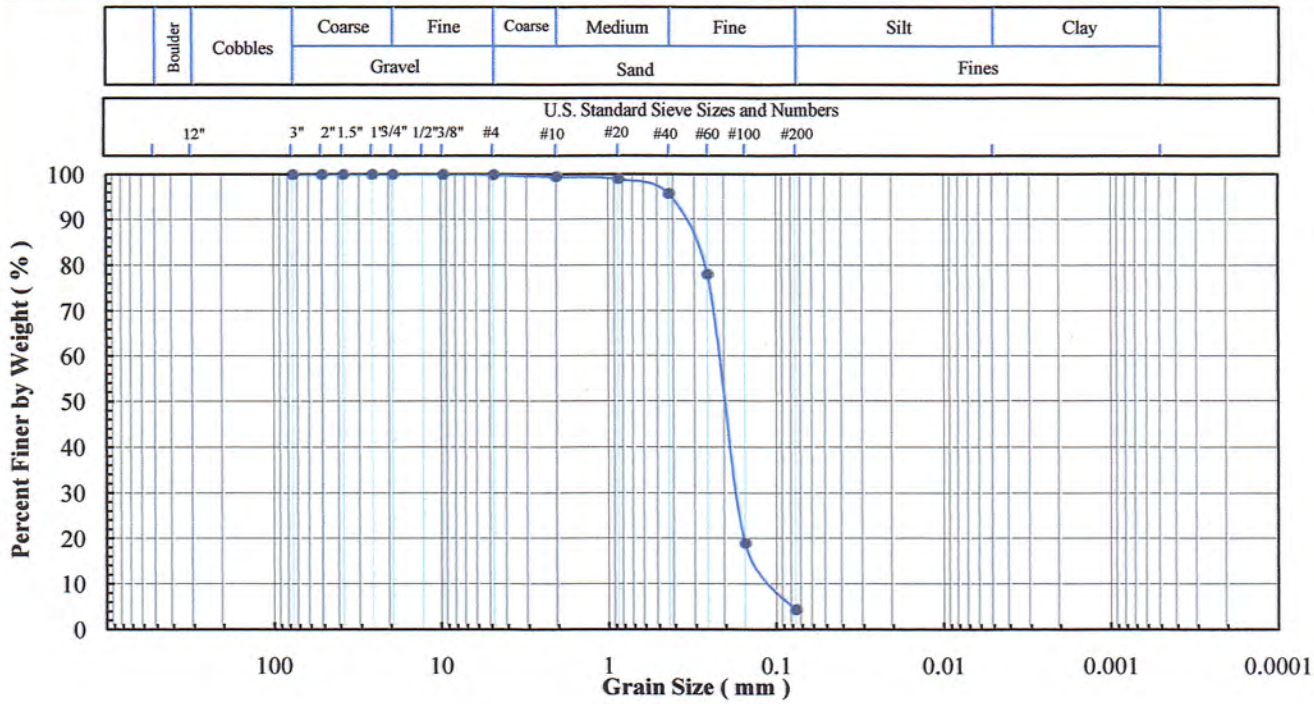
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-01
Lab Sample No:	14B065

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



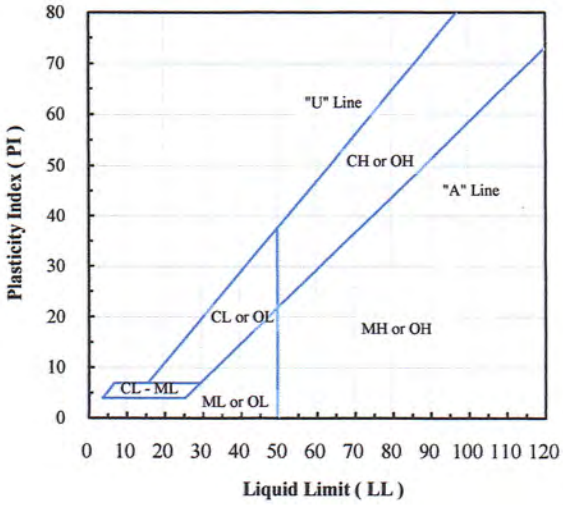
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	99.9
#10	2.00	99.5
#20	0.850	99.0
#40	0.425	95.7
#60	0.250	78.1
#100	0.150	18.9
#200	0.075	4.4

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	0.1
Sand (%):	95.5
Fines (%):	4.4
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.1
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-01	14B065	6.2	4.4				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, MSA

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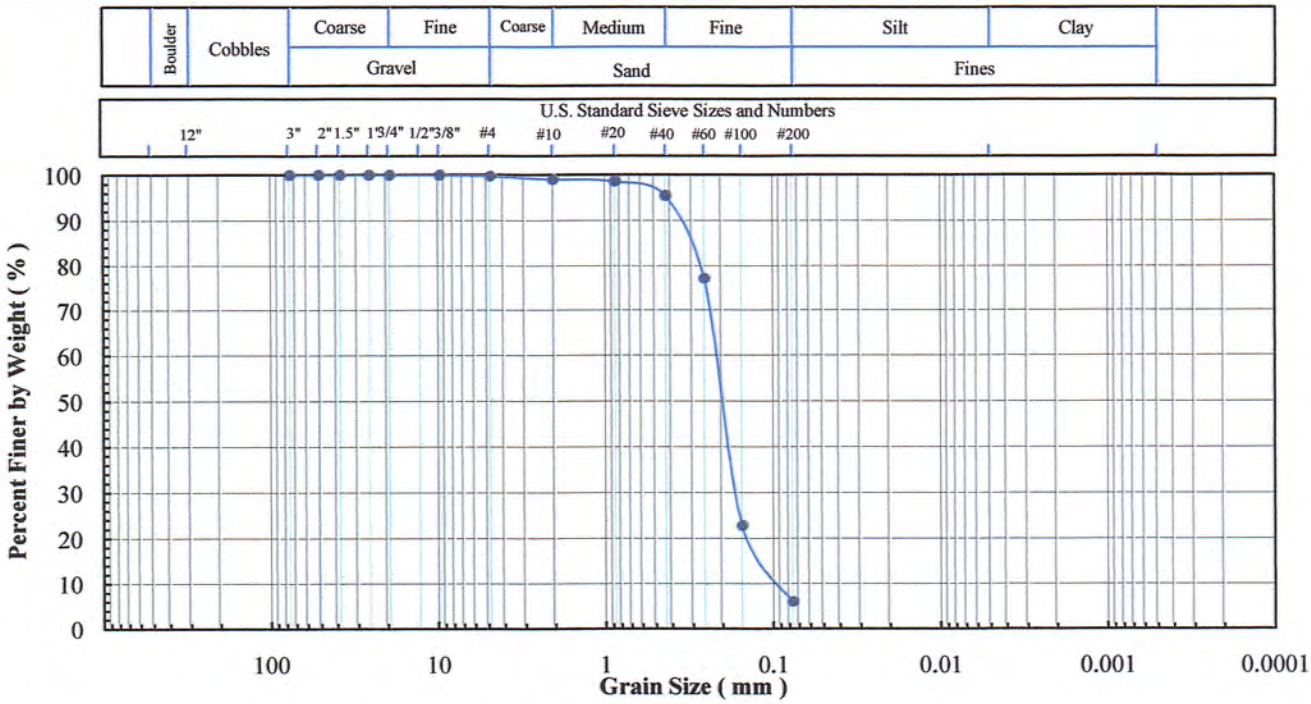
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-02
Lab Sample No:	14B066

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



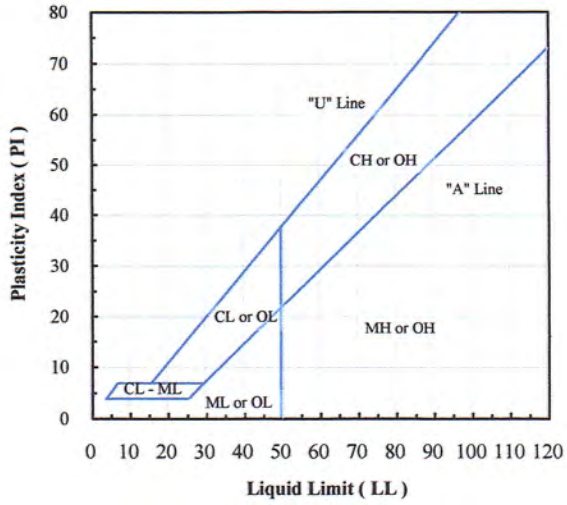
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	99.8
#10	2.00	99.1
#20	0.850	98.6
#40	0.425	95.5
#60	0.250	77.1
#100	0.150	22.9
#200	0.075	6.1

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	0.2
Sand (%):	93.7
Fines (%):	6.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.1
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-02	14B066	8.7	6.1				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, MSR

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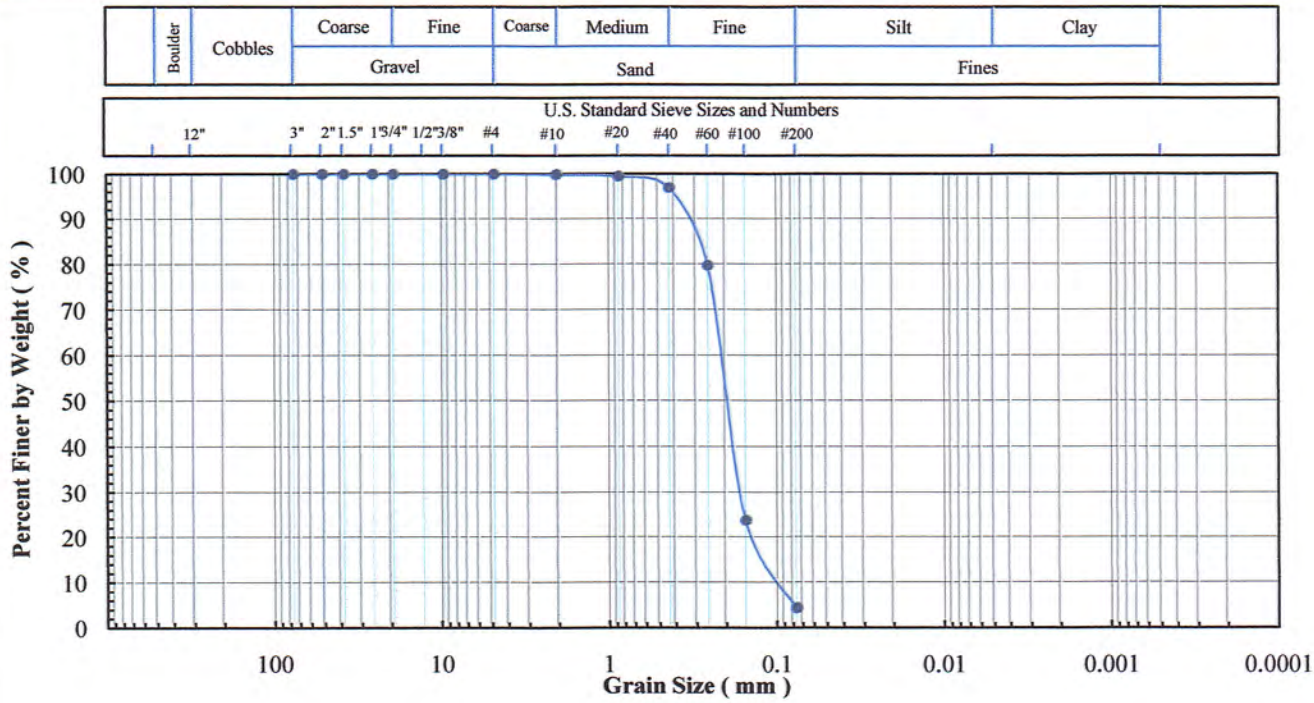
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-03
Lab Sample No:	14B067

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



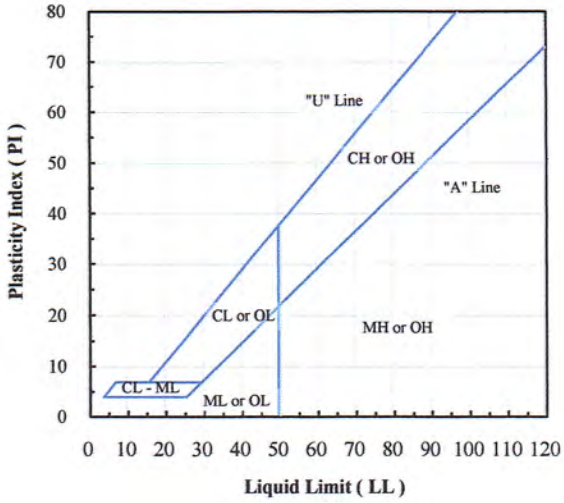
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.9
#20	0.850	99.5
#40	0.425	97.0
#60	0.250	79.7
#100	0.150	23.7
#200	0.075	4.4

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	95.6
Fines (%):	4.4
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.1
Coeff. Curv. (Cc):	1.2



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-03	14B067	4.8	4.4				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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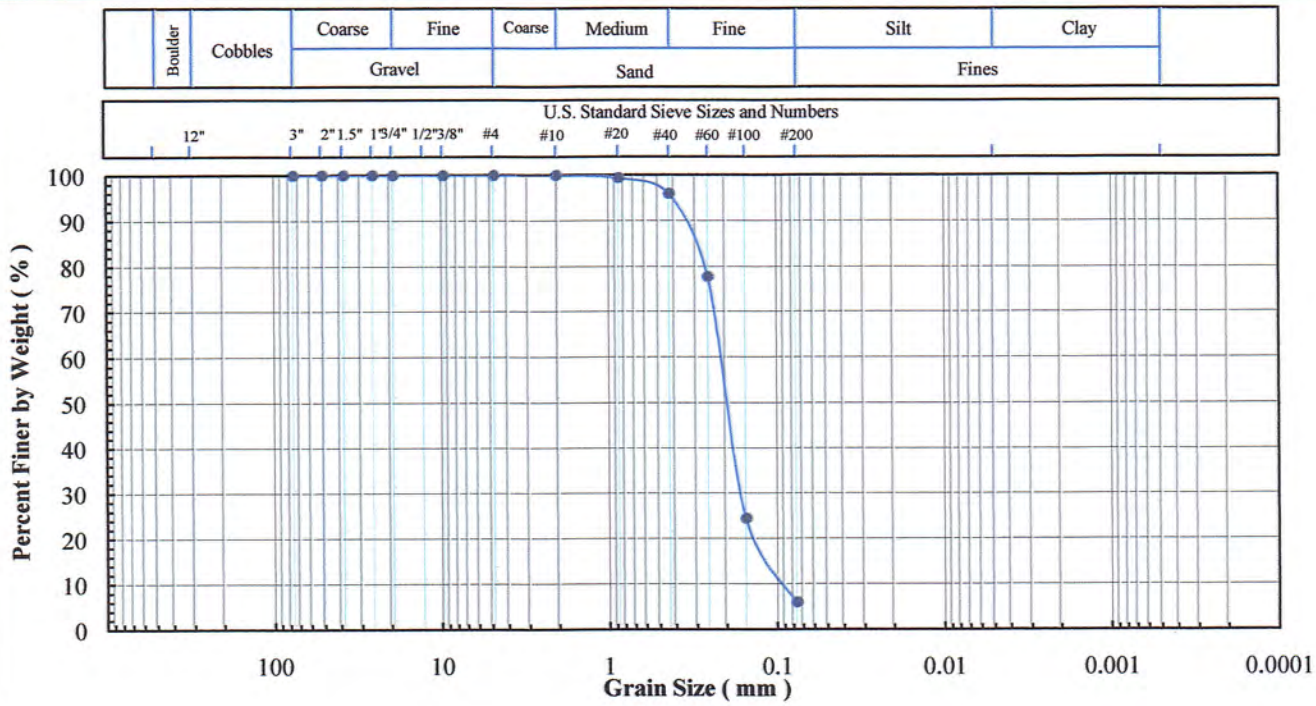
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-04
Lab Sample No:	14B068

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



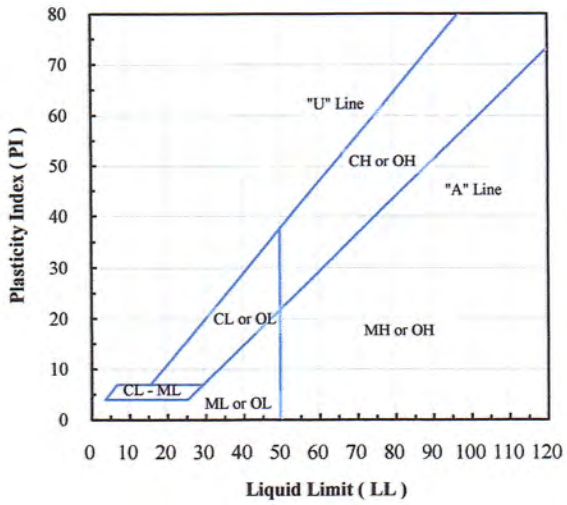
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.4
#40	0.425	95.9
#60	0.250	77.8
#100	0.150	24.4
#200	0.075	6.0

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.0
Fines (%):	6.0
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.2
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-04	14B068	10.3	6.0				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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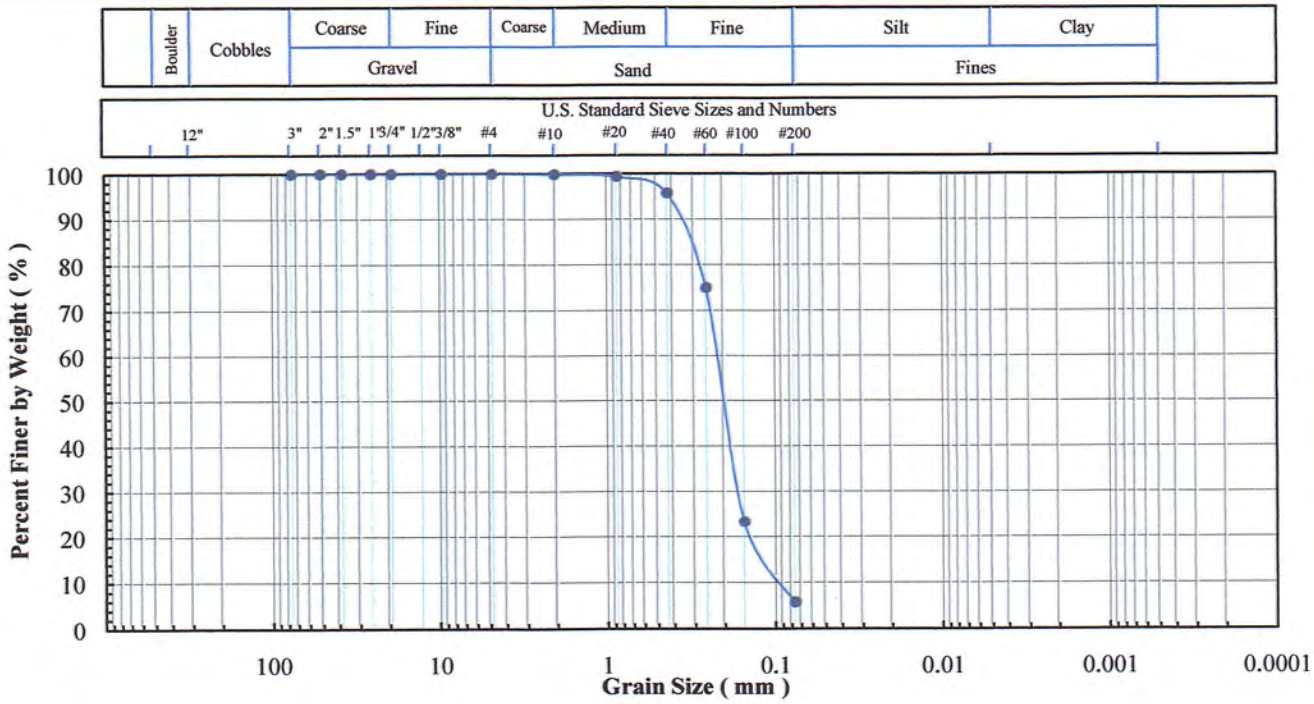
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-05
Lab Sample No:	14B069

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



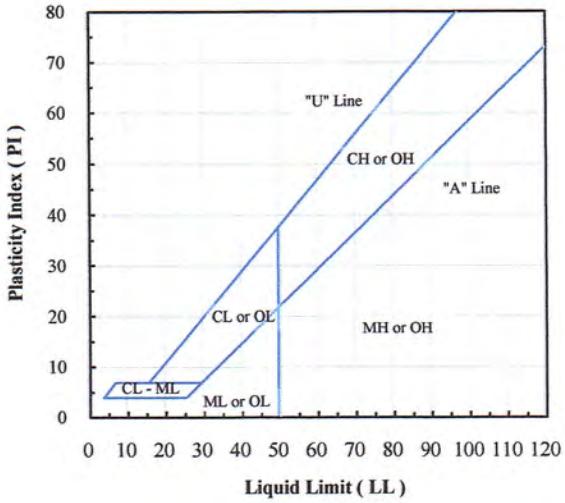
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.9
#20	0.850	99.4
#40	0.425	95.8
#60	0.250	75.0
#100	0.150	23.4
#200	0.075	5.8

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.2
Fines (%):	5.8
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.2
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-05	14B069	7.2	5.8				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSK

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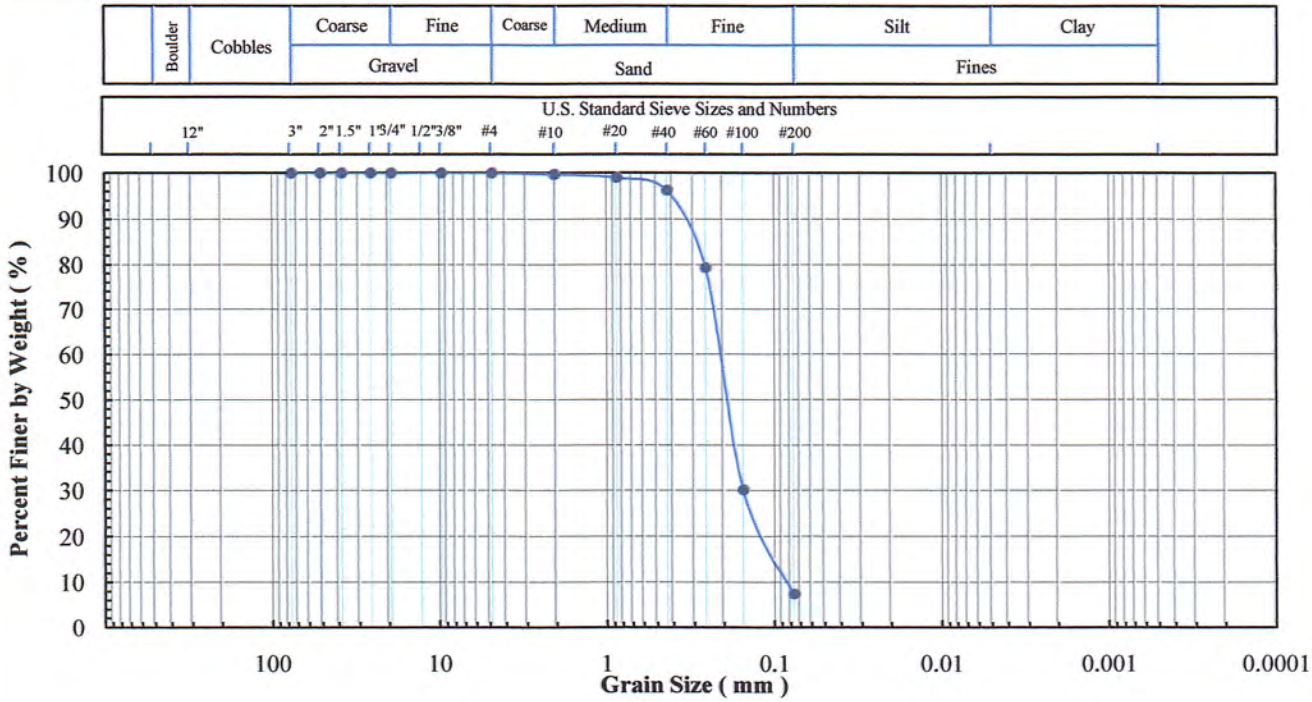
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-06
Lab Sample No:	14B070

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



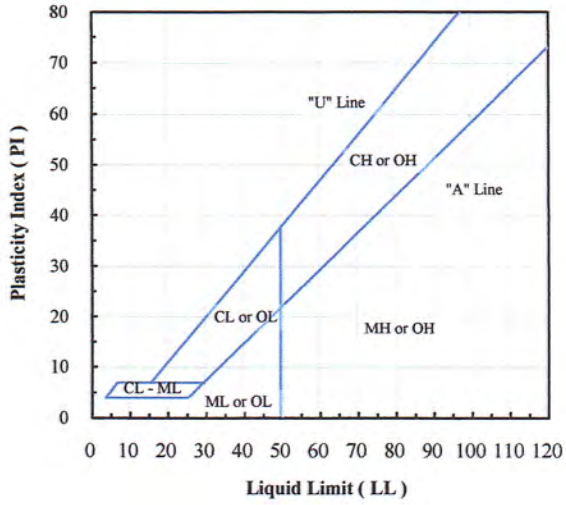
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.7
#20	0.850	99.0
#40	0.425	96.3
#60	0.250	79.3
#100	0.150	30.1
#200	0.075	7.5

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	92.5
Fines (%):	7.5
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.7
Coeff. Curv. (Cc):	1.2



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-06	14B070	5.8	7.5				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

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953 Forrest Street, Roswell, Georgia 30075
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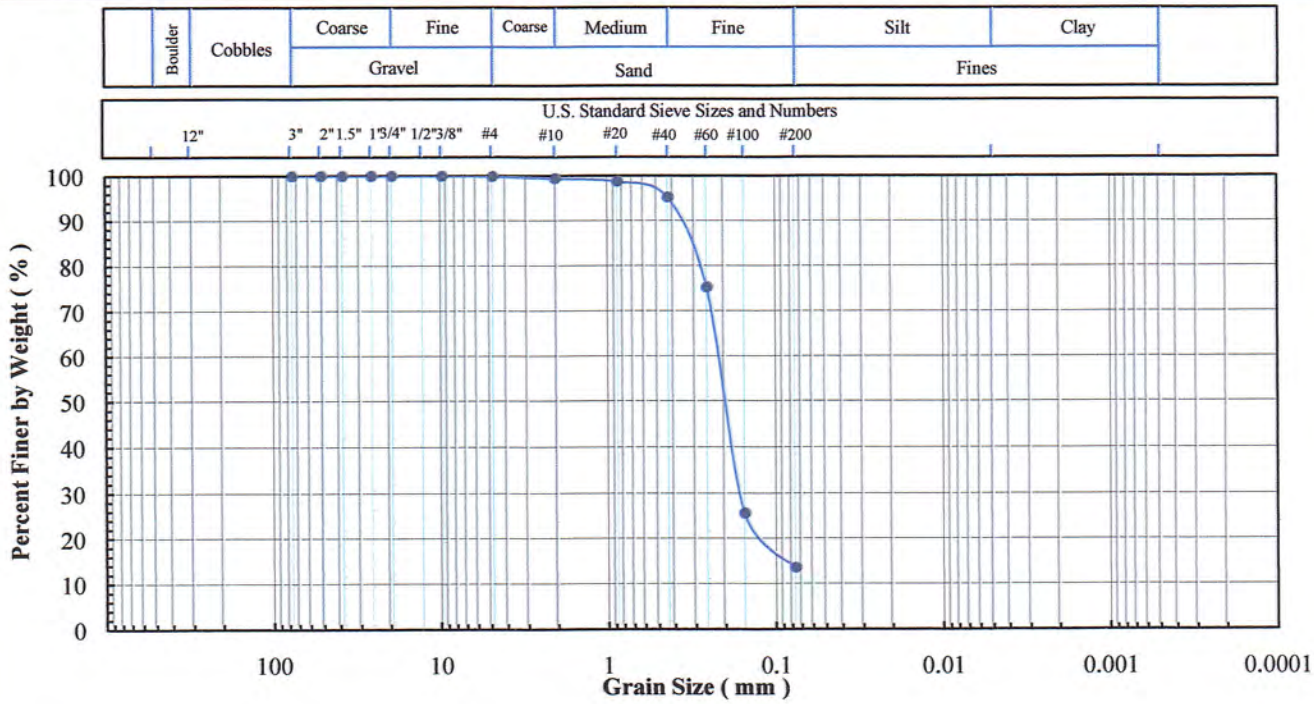
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-07
Lab Sample No:	14B071

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



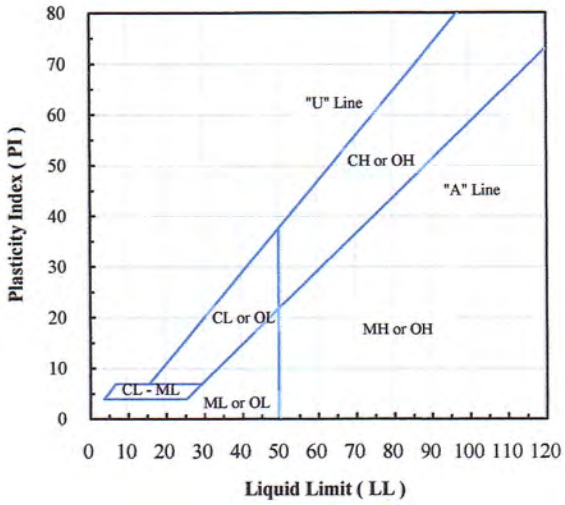
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	99.9
#10	2.00	99.4
#20	0.850	98.8
#40	0.425	95.3
#60	0.250	75.2
#100	0.150	25.6
#200	0.075	13.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	0.1
Sand (%):	86.3
Fines (%):	13.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	4.0
Coeff. Curv. (Cc):	2.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-07	14B071	10.7	13.6				SM - Silty sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, WSR

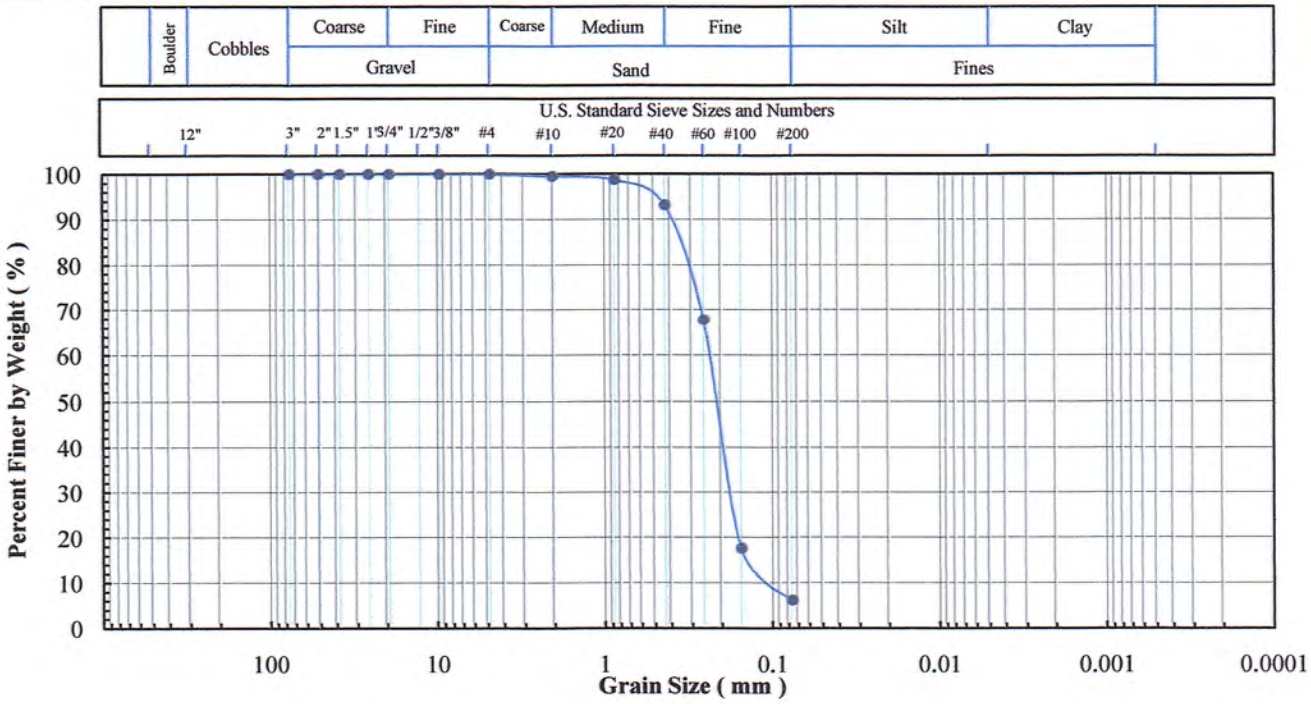
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-08
Lab Sample No:	14B072

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



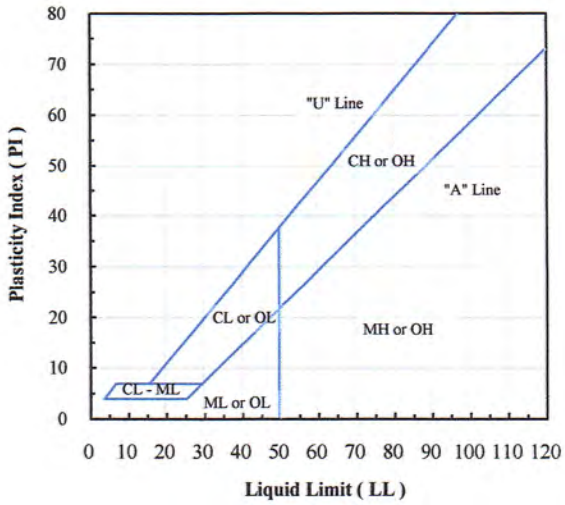
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.6
#20	0.850	98.8
#40	0.425	93.2
#60	0.250	67.8
#100	0.150	17.6
#200	0.075	6.2

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	93.8
Fines (%):	6.2
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.0
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-08	14B072	9.2	6.2				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, WSR

Excel Geotechnical Testing, Inc.
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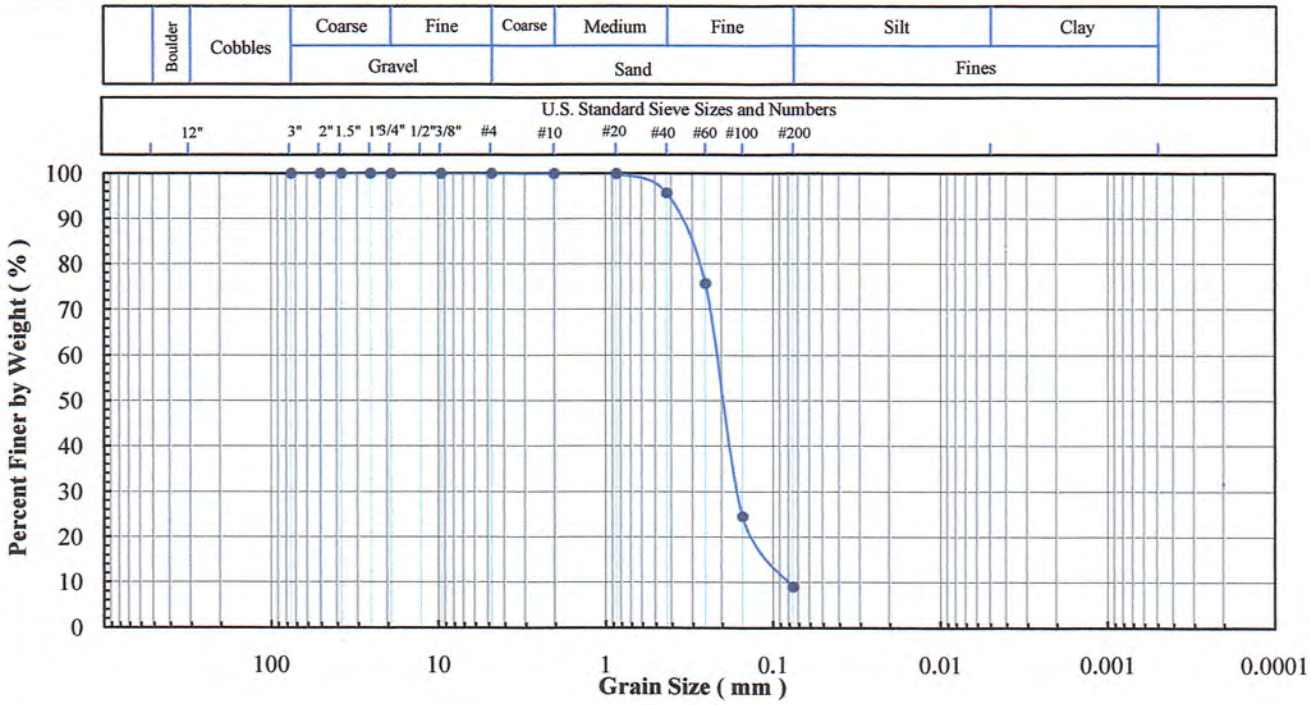
Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-09
Lab Sample No:	14B045

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



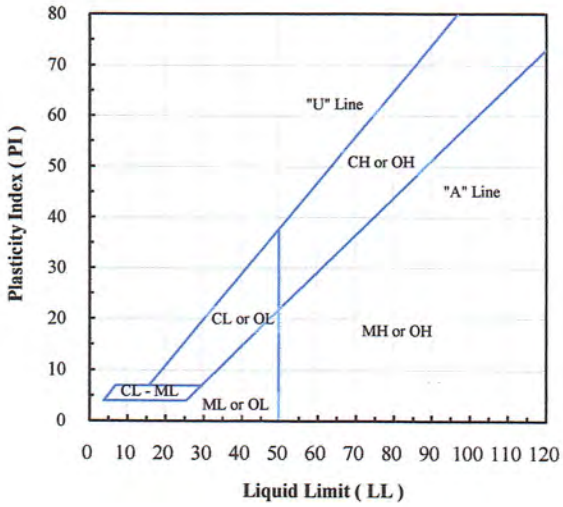
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	95.7
#60	0.250	75.6
#100	0.150	24.6
#200	0.075	9.0

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	91.0
Fines (%):	9.0
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.6
Coeff. Curv. (Cc):	1.5



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-09	14B045	9.7	9.0				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD/VSR

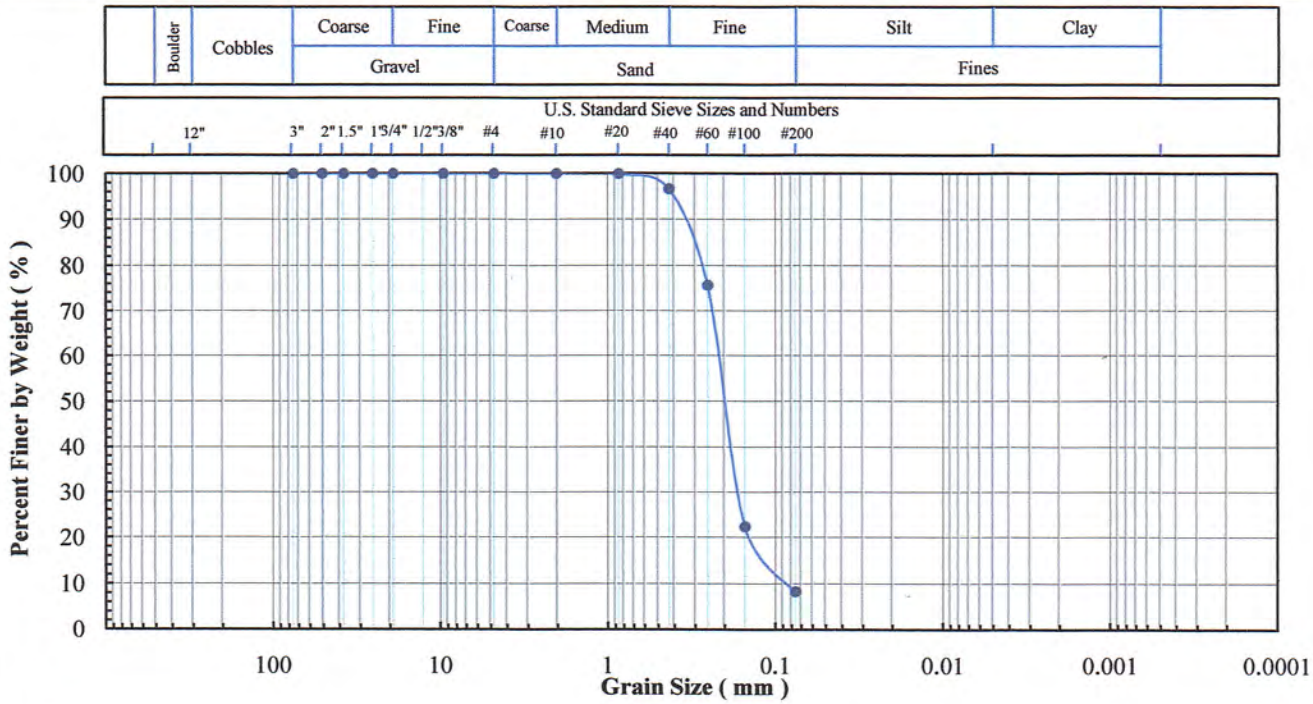
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-10
Lab Sample No:	14B046

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



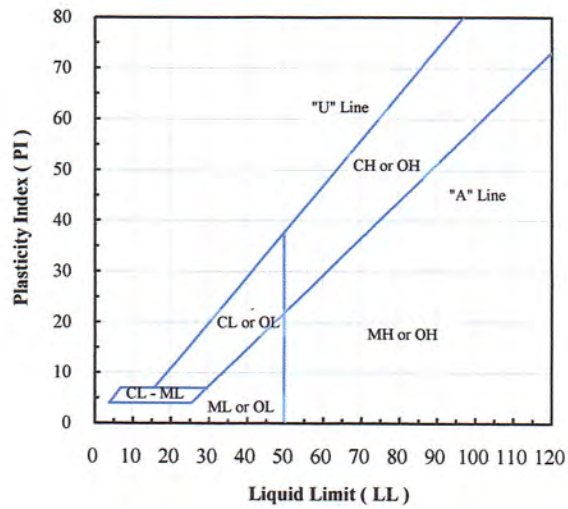
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	96.6
#60	0.250	75.6
#100	0.150	22.3
#200	0.075	8.3

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	91.7
Fines (%):	8.3
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.4
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-10	14B046	9.0	8.3				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, MSR

Excel Geotechnical Testing, Inc.
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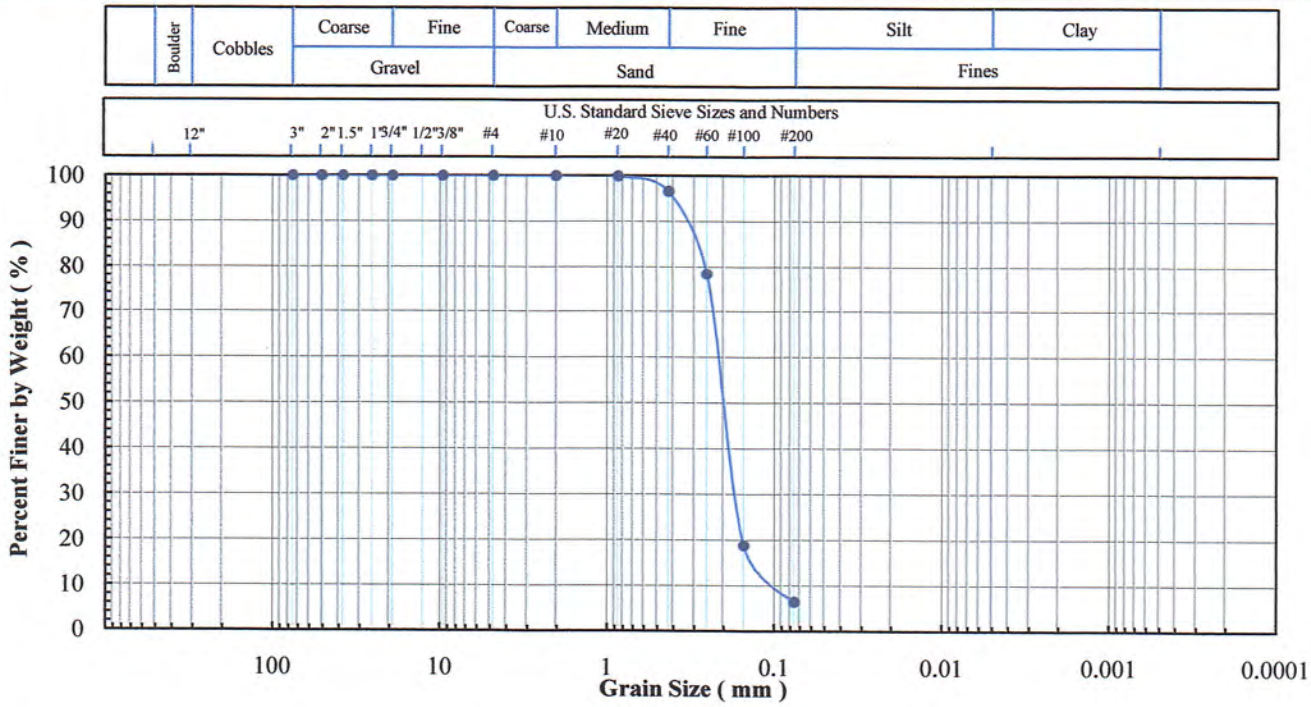
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-11
Lab Sample No:	14B047

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



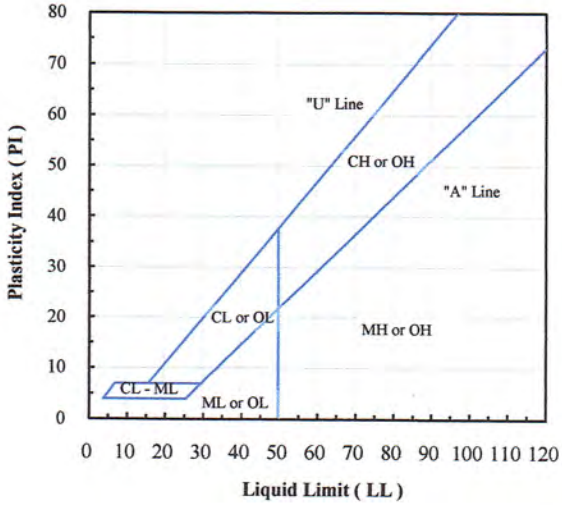
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	96.6
#60	0.250	78.4
#100	0.150	18.8
#200	0.075	6.4

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	93.6
Fines (%):	6.4
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.9
Coeff. Curv. (Cc):	1.1



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-11	14B047	8.7	6.4				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

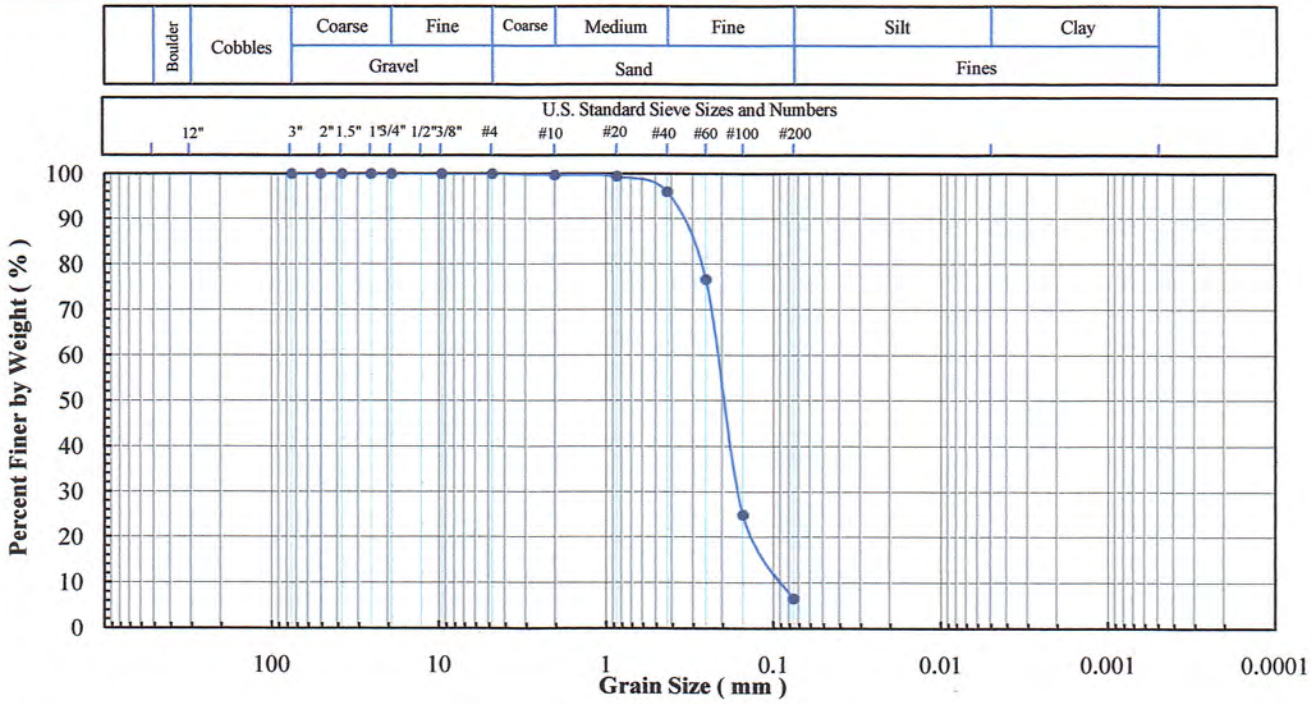
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-12
Lab Sample No:	14B048

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



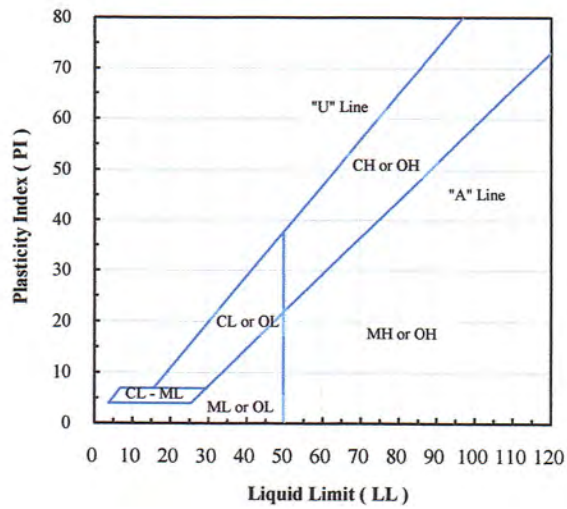
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	99.8
#20	0.850	99.4
#40	0.425	96.0
#60	0.250	76.7
#100	0.150	24.9
#200	0.075	6.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	93.4
Fines (%):	6.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.3
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-12	14B048	8.7	6.6				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

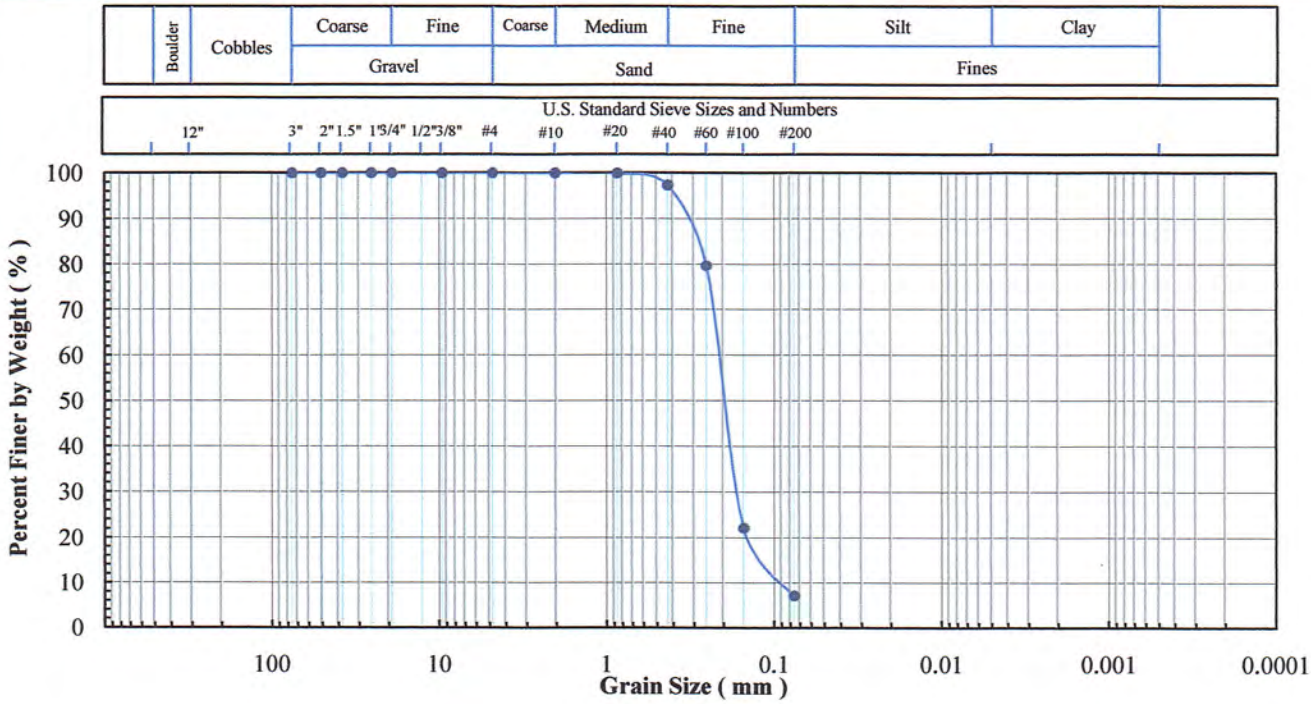
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-13
Lab Sample No:	14B049

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



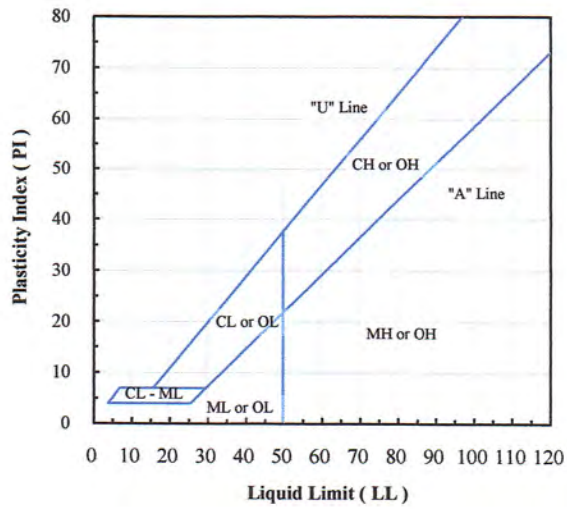
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	97.3
#60	0.250	79.7
#100	0.150	22.2
#200	0.075	7.1

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	92.9
Fines (%):	7.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.3
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-13	14B049	10.9	7.1				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

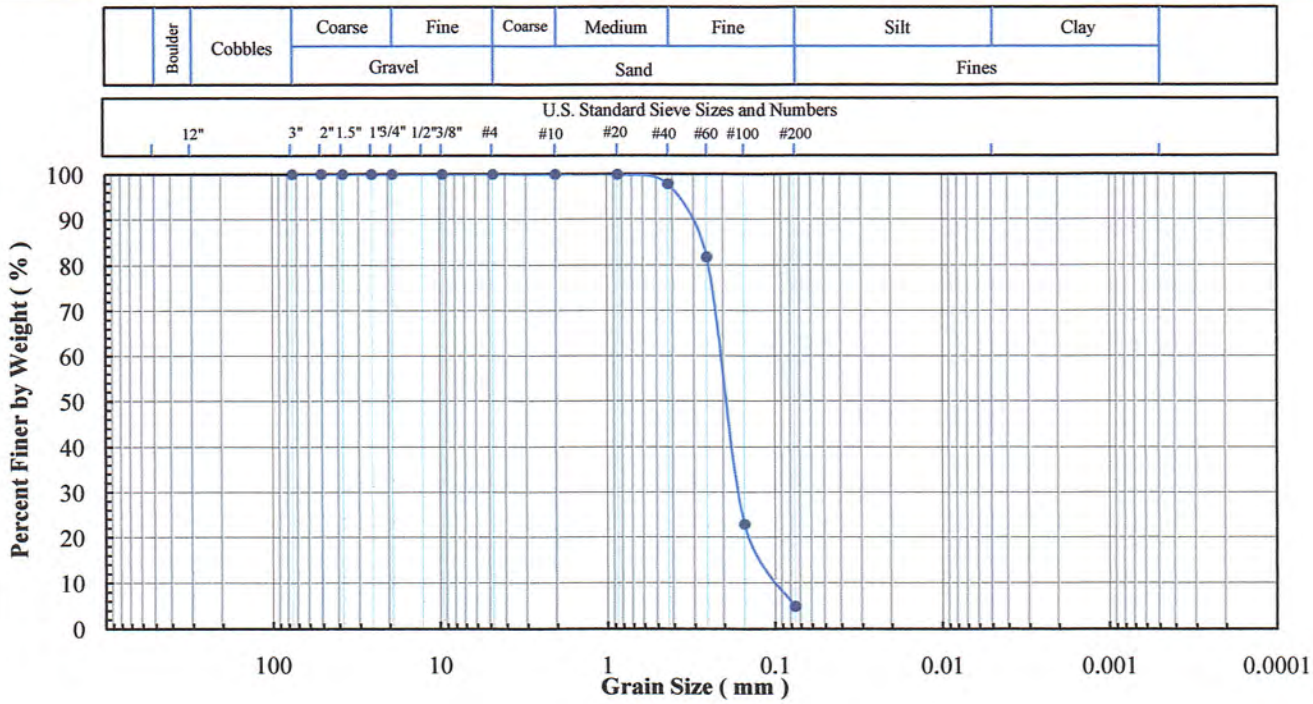
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-14
Lab Sample No:	14B050

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



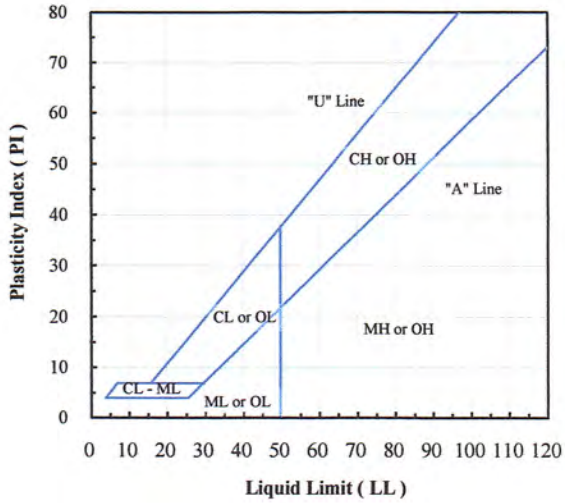
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	97.8
#60	0.250	81.7
#100	0.150	22.9
#200	0.075	4.9

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	95.1
Fines (%):	4.9
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.1
Coeff. Curv. (Cc):	1.2



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-14	14B050	5.3	4.9				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, JSF

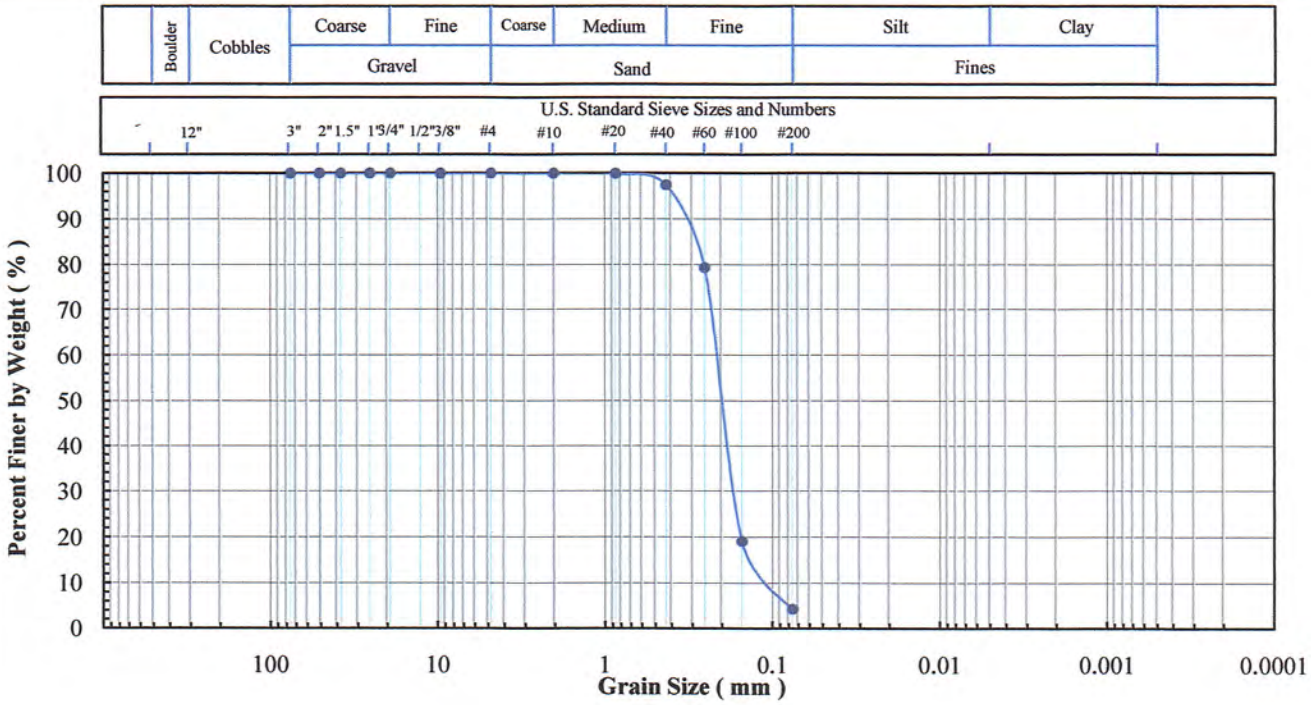
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-15
Lab Sample No:	14B051

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



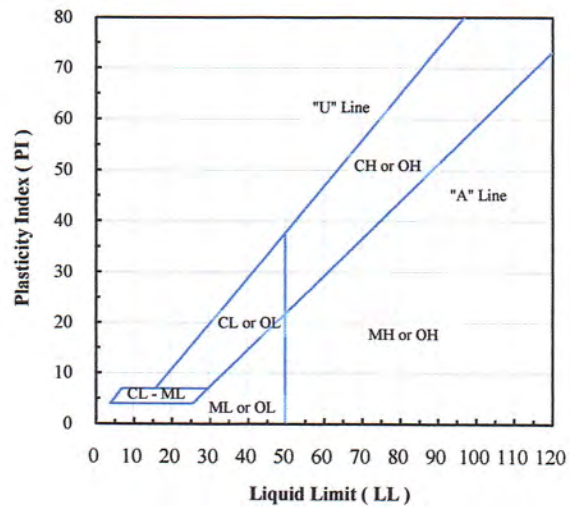
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	97.5
#60	0.250	79.3
#100	0.150	19.2
#200	0.075	4.3

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	95.7
Fines (%):	4.3
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.8
Coeff. Curv. (Cc):	1.1



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-15	14B051	4.4	4.3				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, ISR

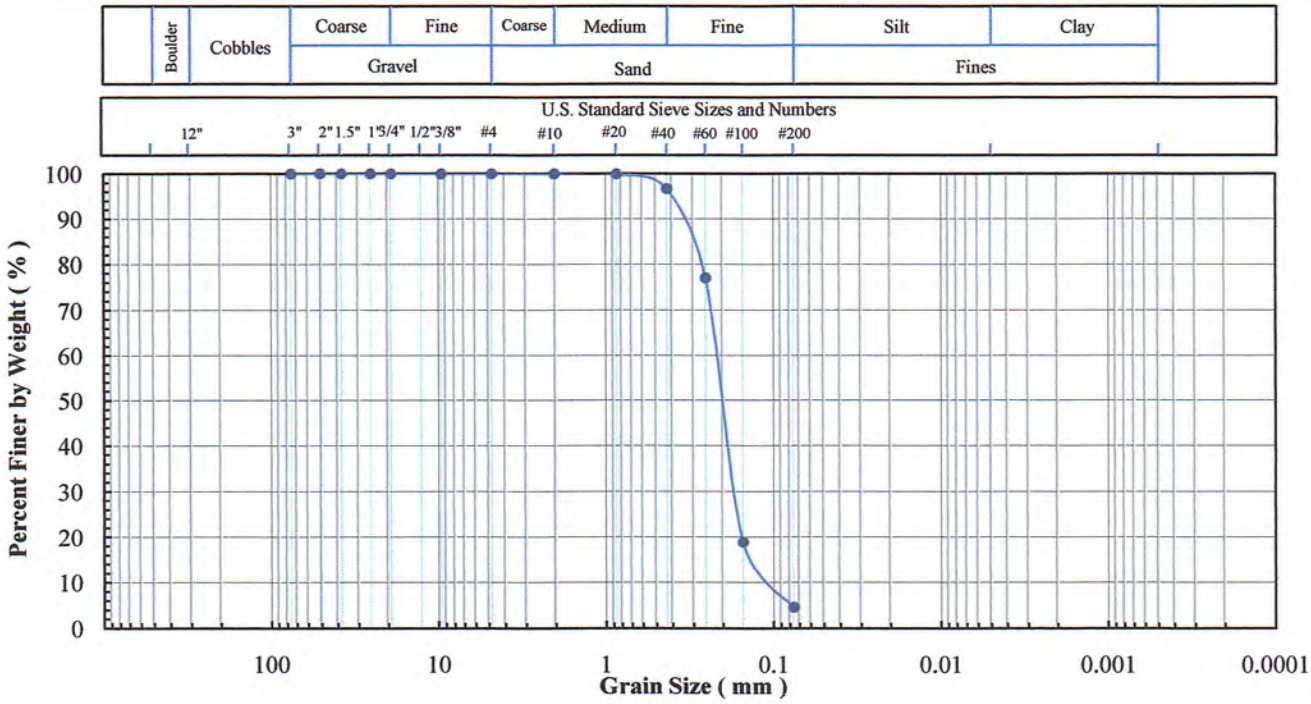
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-16
Lab Sample No:	14B052

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



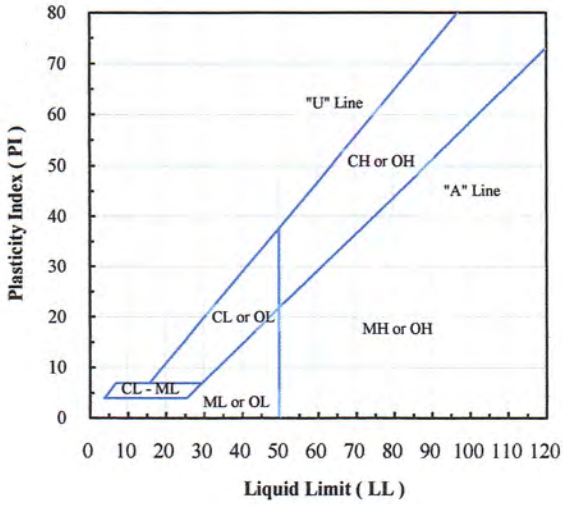
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	96.7
#60	0.250	77.0
#100	0.150	18.9
#200	0.075	4.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	95.4
Fines (%):	4.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.8
Coeff. Curv. (Cc):	1.1



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-16	14B052	5.4	4.6				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

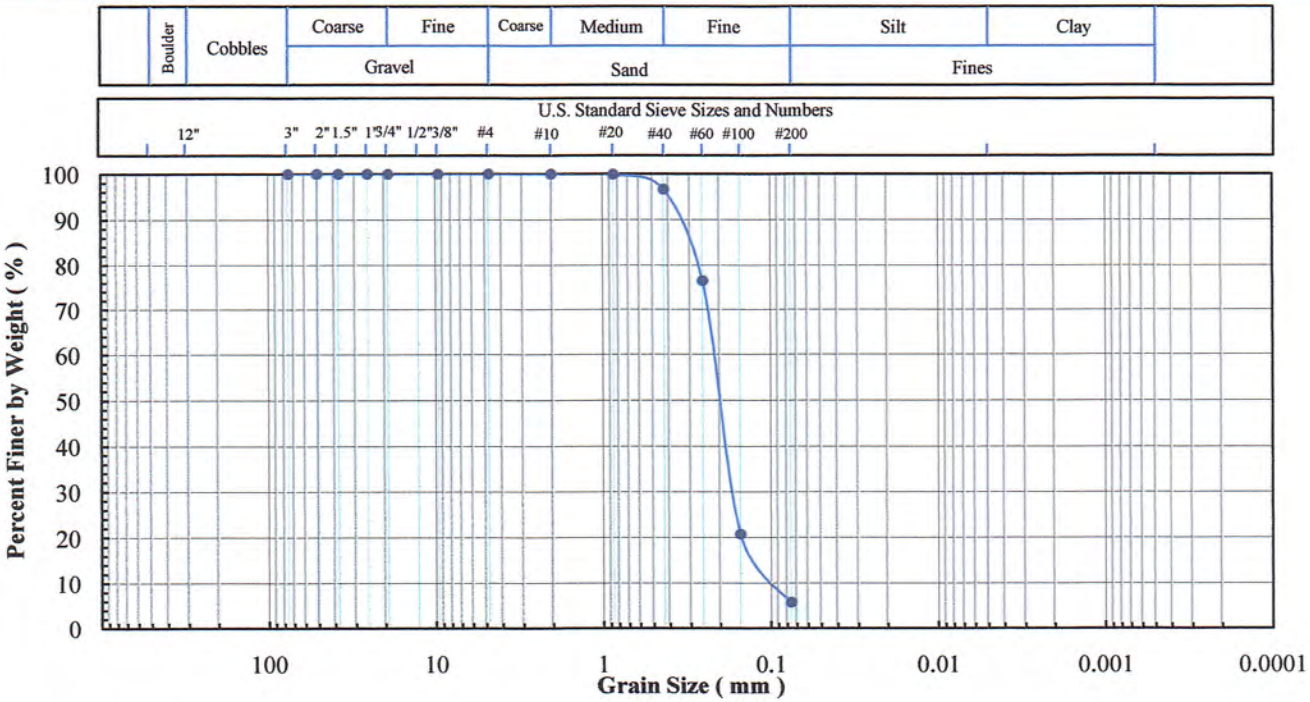
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-17
Lab Sample No:	14B053

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



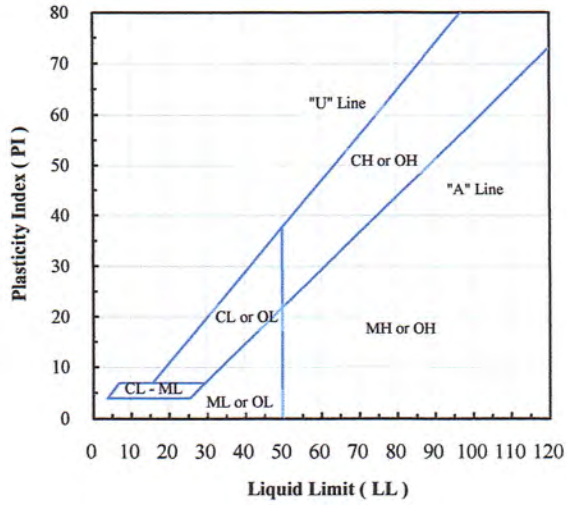
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.9
#40	0.425	96.6
#60	0.250	76.5
#100	0.150	20.8
#200	0.075	5.8

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.2
Fines (%):	5.8
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.9
Coeff. Curv. (Cc):	1.3



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-17	14B053	7.3	5.8				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

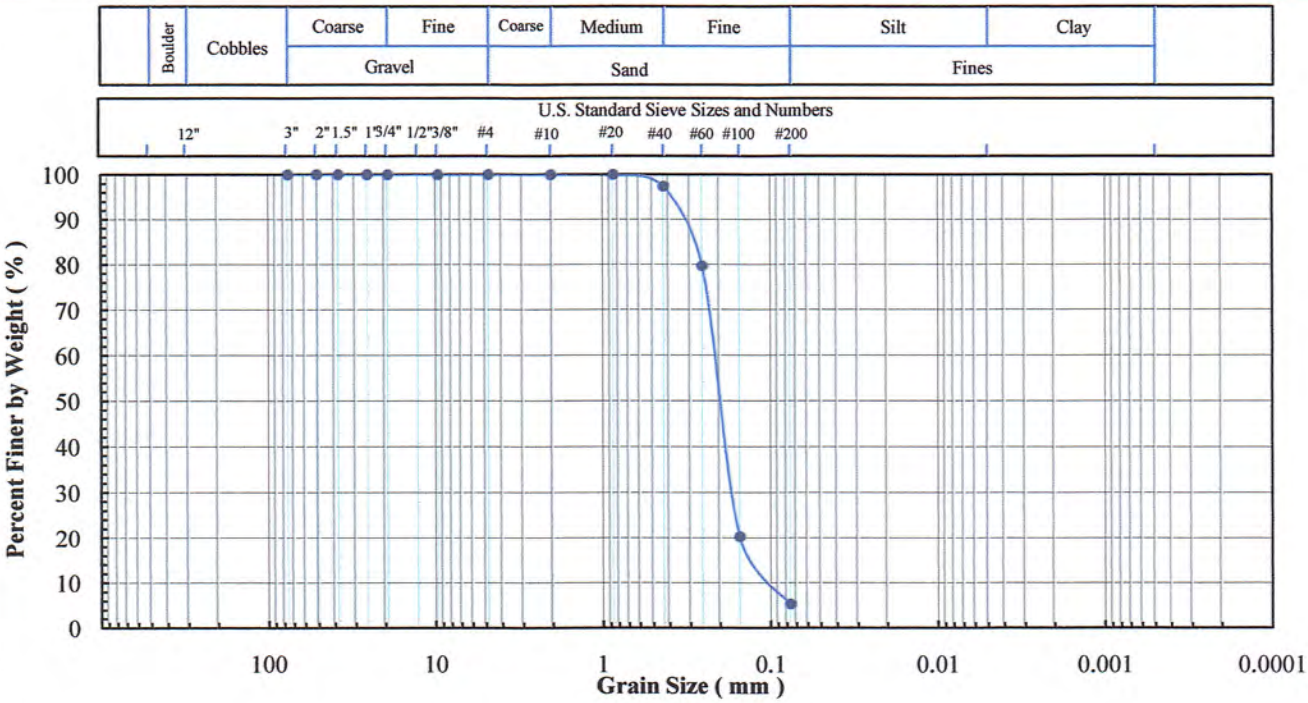
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-18
Lab Sample No:	14B054

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



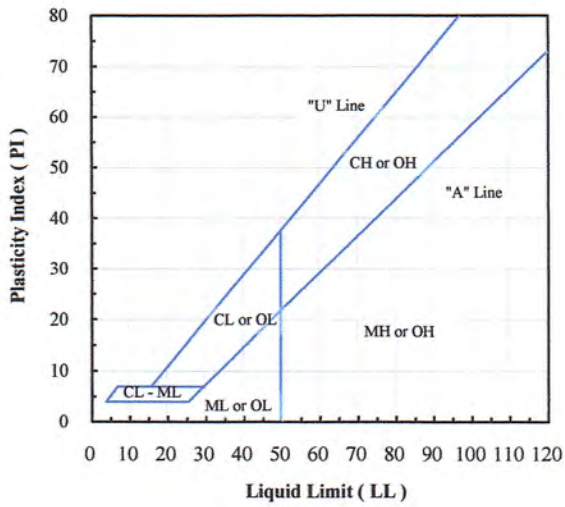
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	100.0
#40	0.425	97.4
#60	0.250	79.7
#100	0.150	20.3
#200	0.075	5.4

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	94.6
Fines (%):	5.4
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.8
Coeff. Curv. (Cc):	1.1



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-18	14B054	8.7	5.4				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

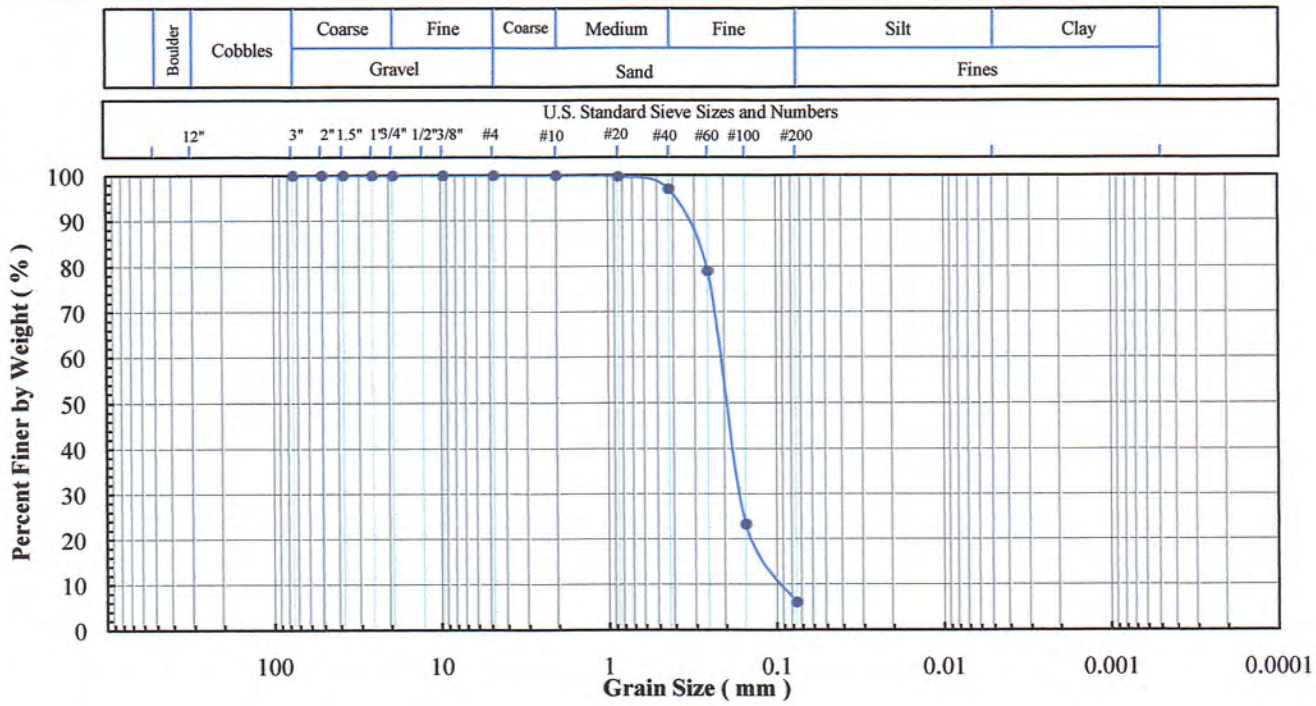
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-19
Lab Sample No:	14B055

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



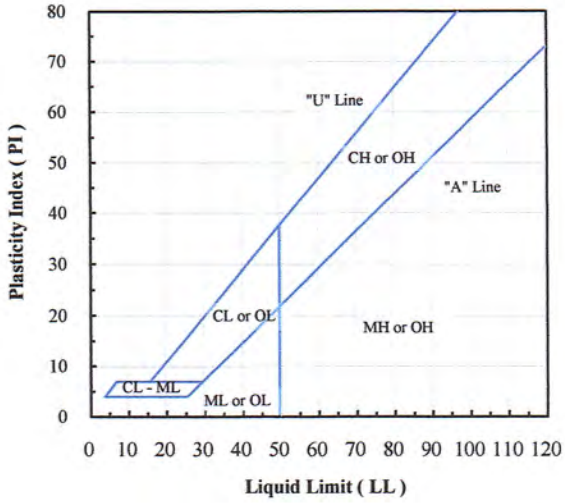
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.8
#40	0.425	97.0
#60	0.250	79.0
#100	0.150	23.3
#200	0.075	6.1

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	93.9
Fines (%):	6.1
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	2.2
Coeff. Curv. (Cc):	1.4



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-19	14B055	6.1	6.1				SP-SM - Poorly graded sand with silt

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR

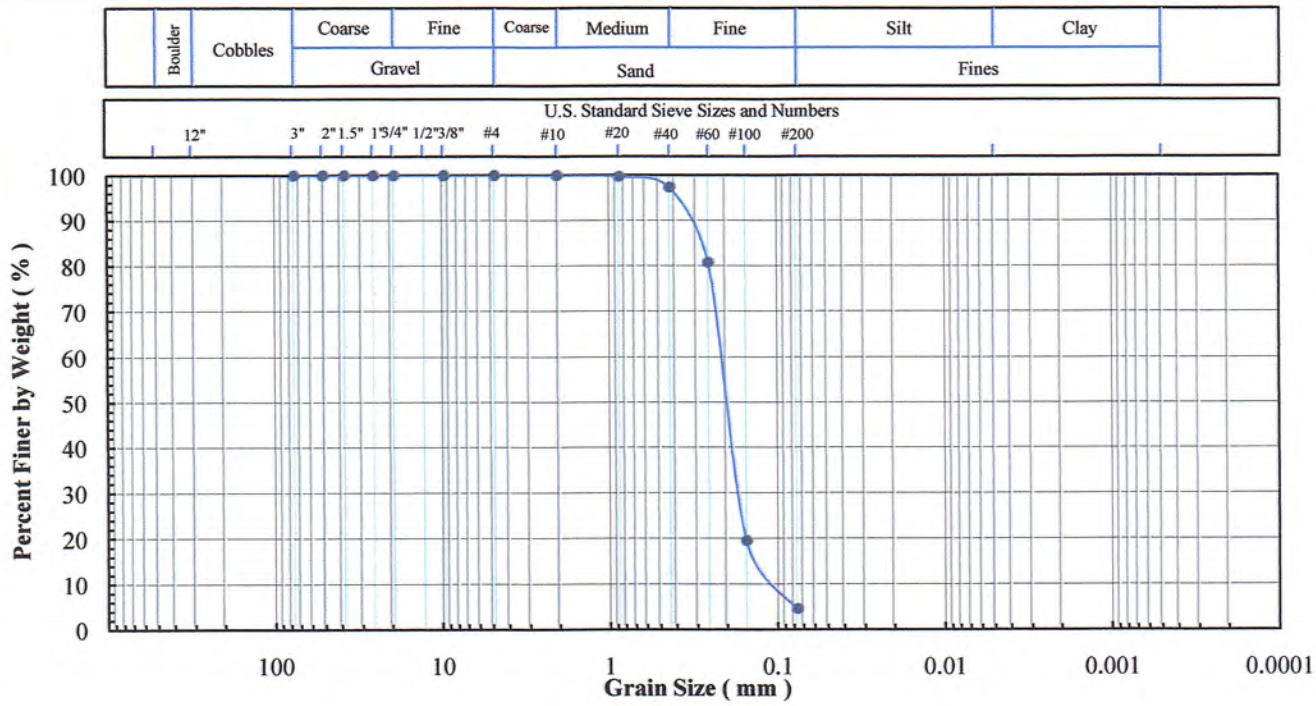
Excel Geotechnical Testing, Inc.
"Excellence in Testing"
953 Forrest Street, Roswell, Georgia 30075
Tel: (770) 910 7537 Fax: (770) 910 7538

Project Name:	JED Cell 10 Construction
Project No:	636
Client Sample ID:	SF-20
Lab Sample No:	14B056

ASTM C 136, D 422, D 854, D 1140, D2216, D 2487, D4318

SOIL INDEX PROPERTIES

Grain Size, Spec. Gravity, Moist. Content, Eng. Classification, Atterberg Limits



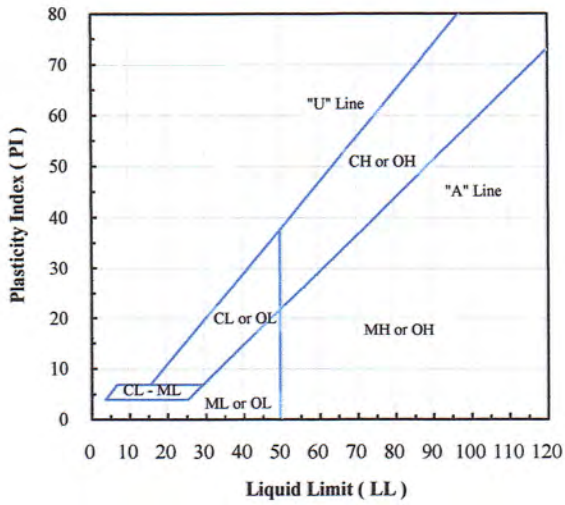
Sieve No.	Size (mm)	% Finer
3"	75	100.0
2"	50	100.0
1.5"	37.5	100.0
1"	25	100.0
3/4"	19	100.0
3/8"	9.5	100.0
#4	4.75	100.0
#10	2.00	100.0
#20	0.850	99.8
#40	0.425	97.4
#60	0.250	80.7
#100	0.150	19.5
#200	0.075	4.6

Specific Gravity (-):	

Hydrometer Particle Diameter (mm)	% Finer

Gravel (%):	
Sand (%):	95.4
Fines (%):	4.6
Silt (%):	
Clay (%):	

Coeff. Unif. (Cu):	1.8
Coeff. Curv. (Cc):	1.1



Client Sample ID.	Lab Sample No:	Moisture Content (%)	Fines Content < No. 200 (%)	Atterberg Limits LL (-)	PL (-)	PI (-)	Engineering Classification
SF-20	14B056	5.8	4.6				SP - Poorly graded sand

Note(s): Engineering classification is based on the assumption that the fines are either ML or MH.

4-3-14
PD, NSR