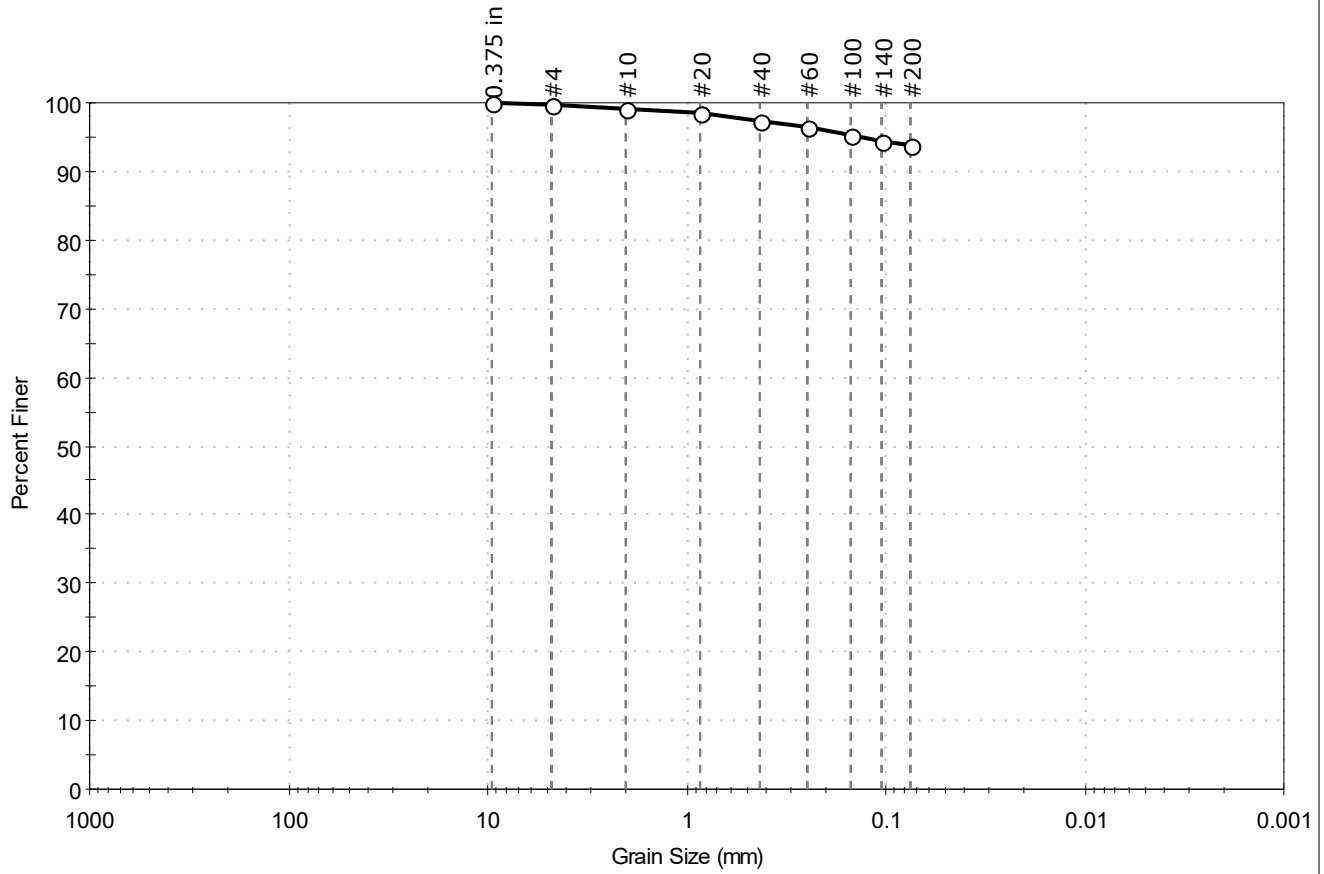




Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-1	Sample Type: jar
Sample ID: 31466-001	Test Date: 01/07/19
Depth: ---	Test Id: 488409
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray clay	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.2	6.1	93.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	99		
#20	0.85	98		
#40	0.42	97		
#60	0.25	96		
#100	0.15	95		
#140	0.11	94		
#200	0.075	94		

<u>Coefficients</u>	
D ₈₅ = N/A	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

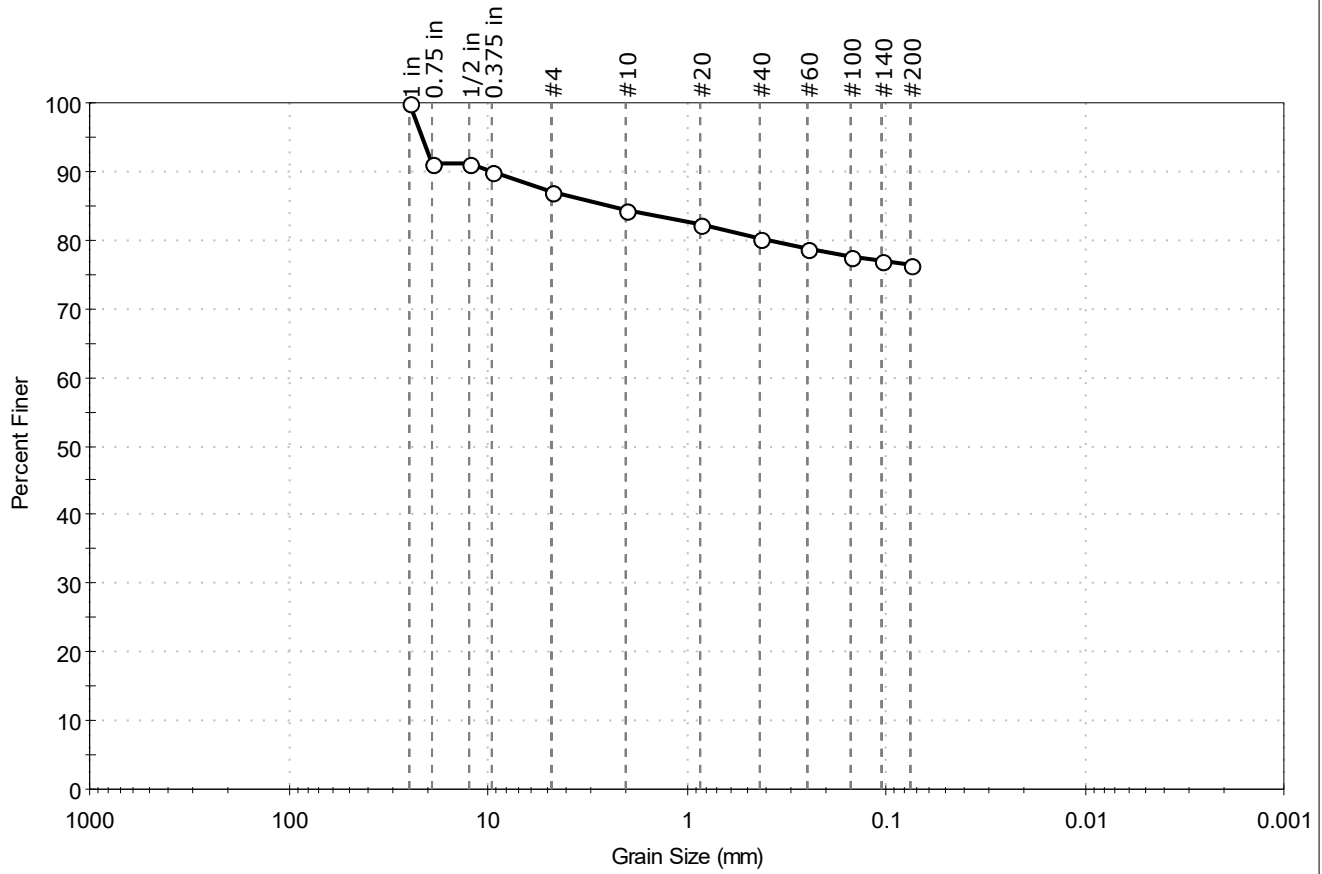
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-2	Sample Type: jar
Sample ID: 31466-002	Test Date: 01/07/19
Depth: ---	Test Id: 488410
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray clay with gravel	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	12.9	10.7	76.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	91		
1/2 in	12.50	91		
0.375 in	9.50	90		
#4	4.75	87		
#10	2.00	84		
#20	0.85	82		
#40	0.42	80		
#60	0.25	79		
#100	0.15	78		
#140	0.11	77		
#200	0.075	76		

<u>Coefficients</u>	
D ₈₅ = 2.4039 mm	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

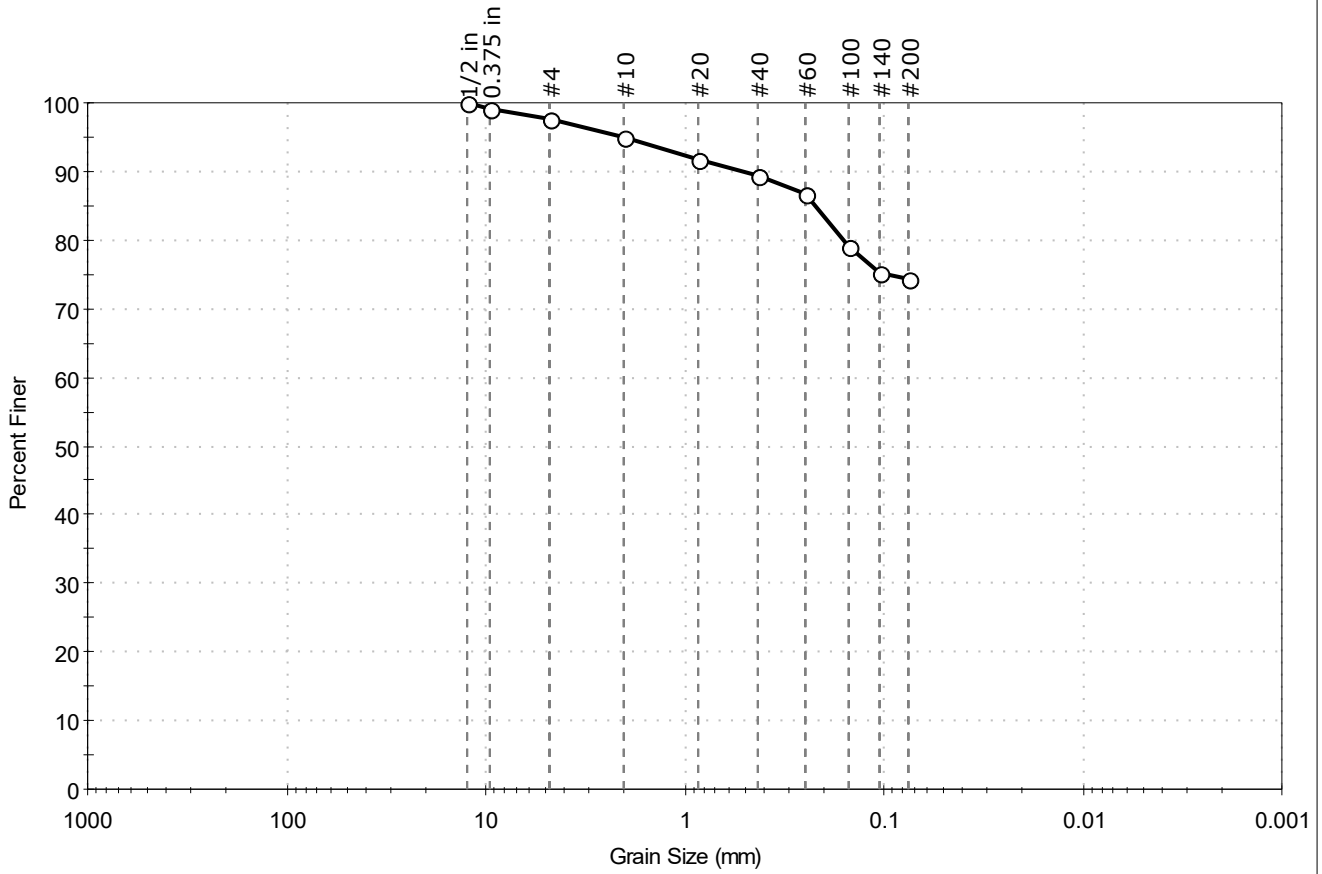
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-3	Sample Type: jar
Sample ID: 31466-003	Test Date: 01/07/19
Depth: ---	Test Id: 488411
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray silt with sand	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	2.4	23.3	74.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	98		
#10	2.00	95		
#20	0.85	92		
#40	0.42	89		
#60	0.25	87		
#100	0.15	79		
#140	0.11	75		
#200	0.075	74		

Coefficients	
D ₈₅ = 0.2238 mm	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

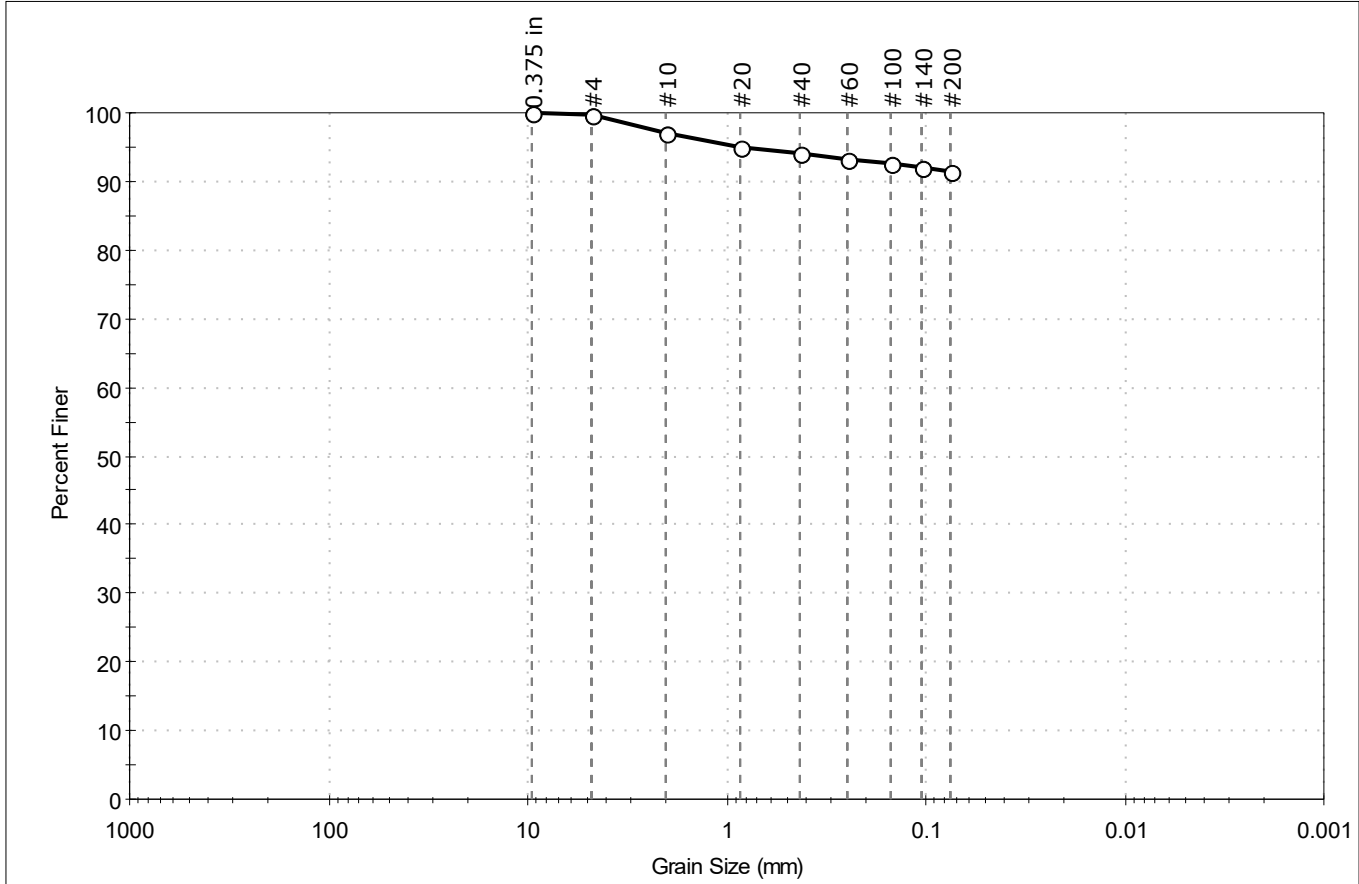
Classification	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

Sample/Test Description
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-4	Sample Type: jar
Sample ID: 31466-004	Test Date: 01/07/19
Depth: ---	Test Id: 488412
Test Comment: ---	Tested By: ckg
Visual Description: Moist, very dark gray silt	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.4	8.3	91.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	97		
#20	0.85	95		
#40	0.42	94		
#60	0.25	93		
#100	0.15	93		
#140	0.11	92		
#200	0.075	91		

<u>Coefficients</u>	
D ₈₅ = N/A	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

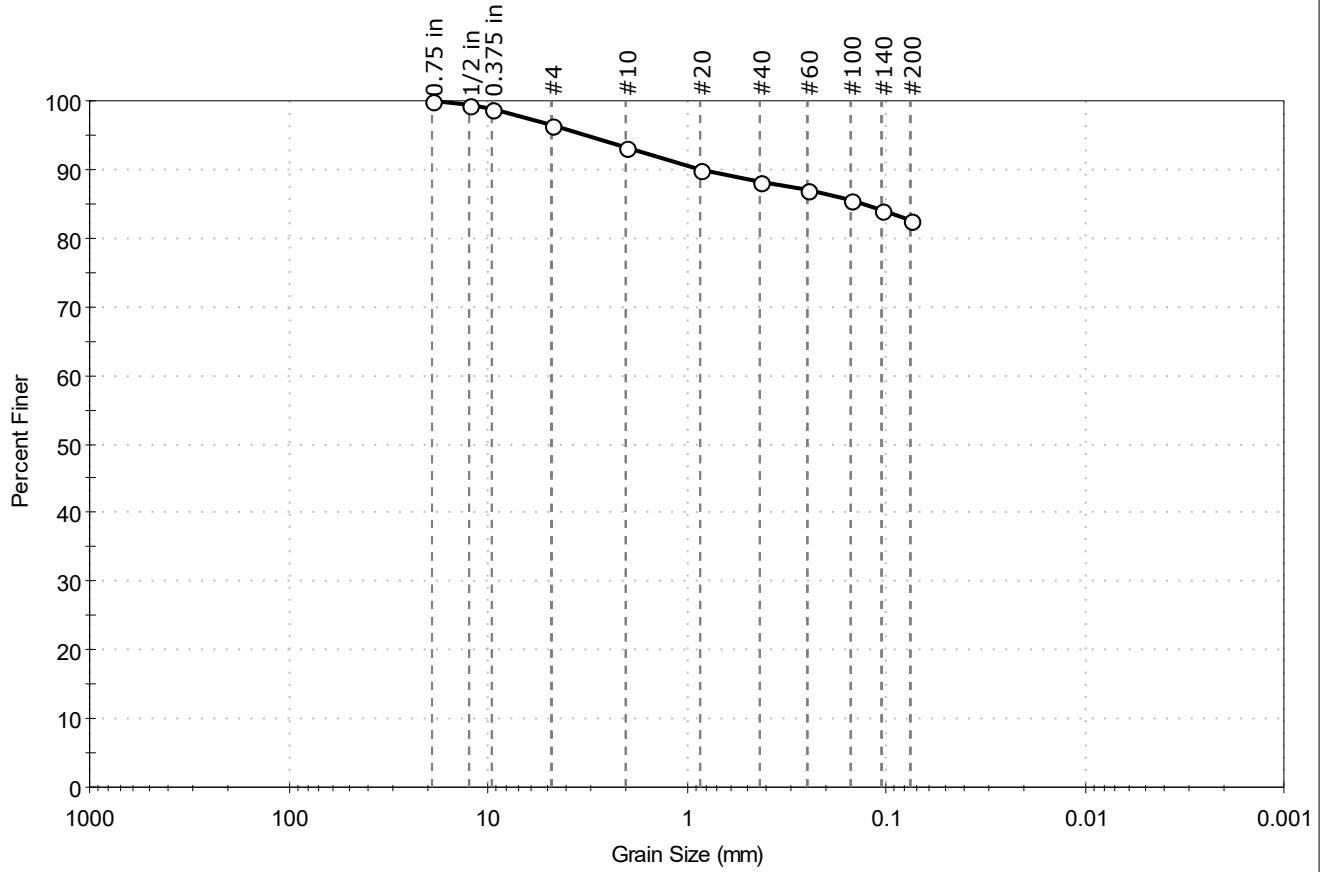
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-5	Sample Type: jar
Sample ID: 31466-005	Test Date: 01/07/19
Depth: ---	Test Id: 488413
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray silt with sand	Checked By: emm
Sample Comment: Sample contains shells	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	3.5	13.9	82.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
1/2 in	12.50	99		
0.375 in	9.50	99		
#4	4.75	96		
#10	2.00	93		
#20	0.85	90		
#40	0.42	88		
#60	0.25	87		
#100	0.15	86		
#140	0.11	84		
#200	0.075	83		

<u>Coefficients</u>	
D ₈₅ = 0.1326 mm	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

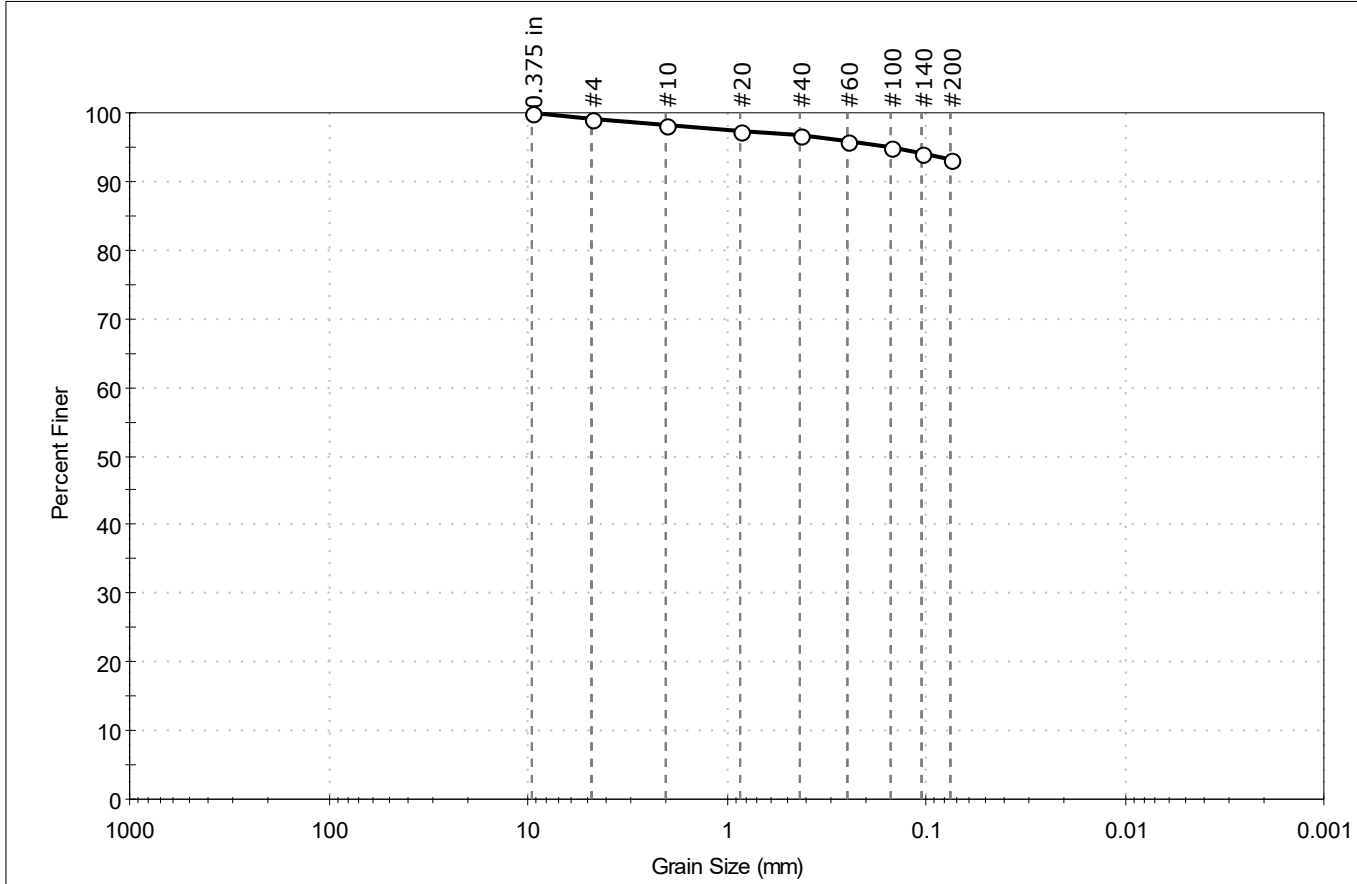
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-6	Sample Type: jar
Sample ID: 31466-006	Test Date: 01/07/19
Depth: ---	Test Id: 488414
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray silt	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	1.0	5.8	93.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	98		
#20	0.85	97		
#40	0.42	97		
#60	0.25	96		
#100	0.15	95		
#140	0.11	94		
#200	0.075	93		

<u>Coefficients</u>	
D ₈₅ = N/A	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

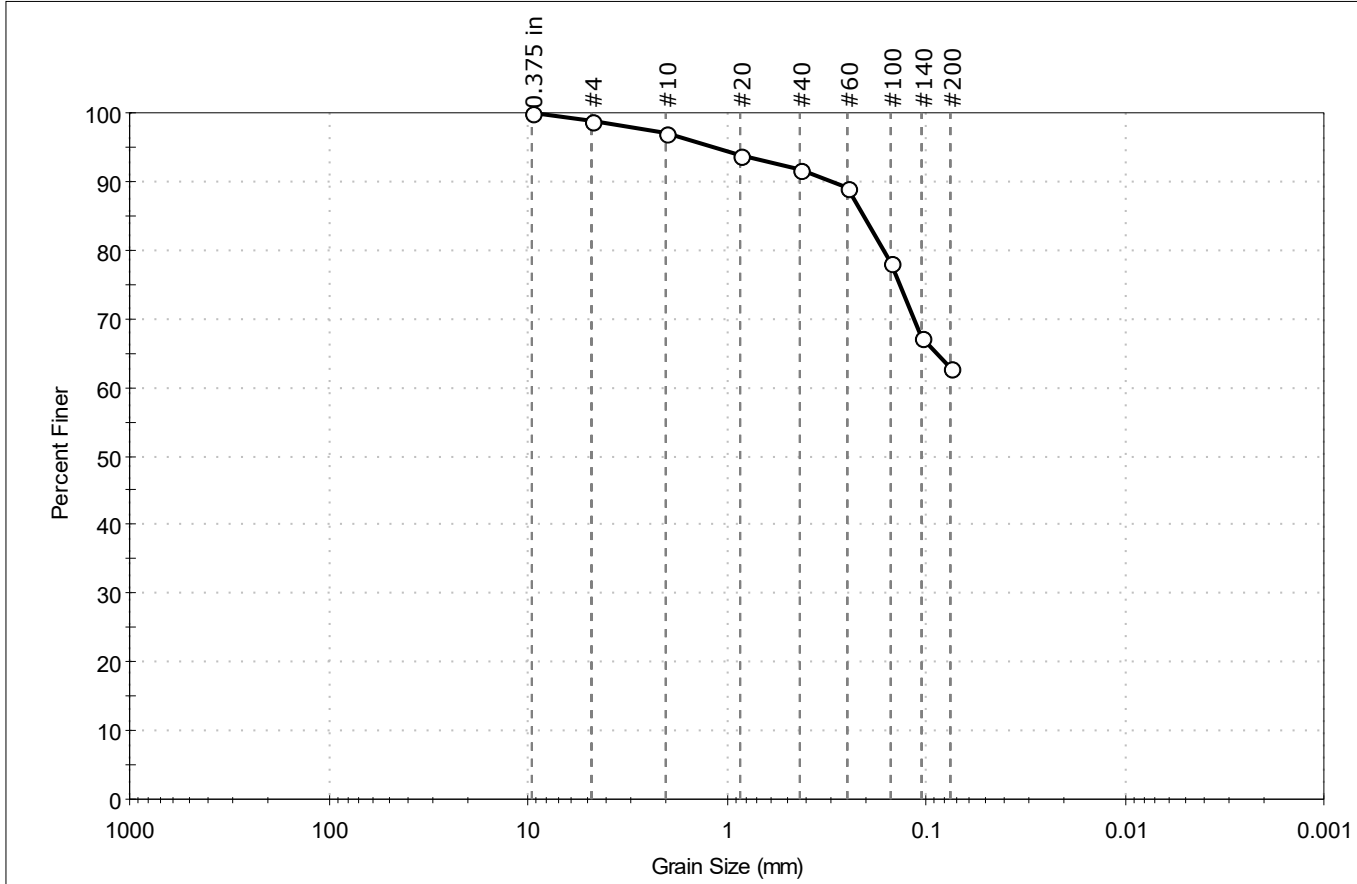
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-7	Sample Type: jar
Sample ID: 31466-007	Test Date: 01/07/19
Depth: ---	Test Id: 488415
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray sandy silt	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	1.1	36.2	62.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	99		
#10	2.00	97		
#20	0.85	94		
#40	0.42	92		
#60	0.25	89		
#100	0.15	78		
#140	0.11	67		
#200	0.075	63		

<u>Coefficients</u>	
D ₈₅ = 0.2074 mm	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

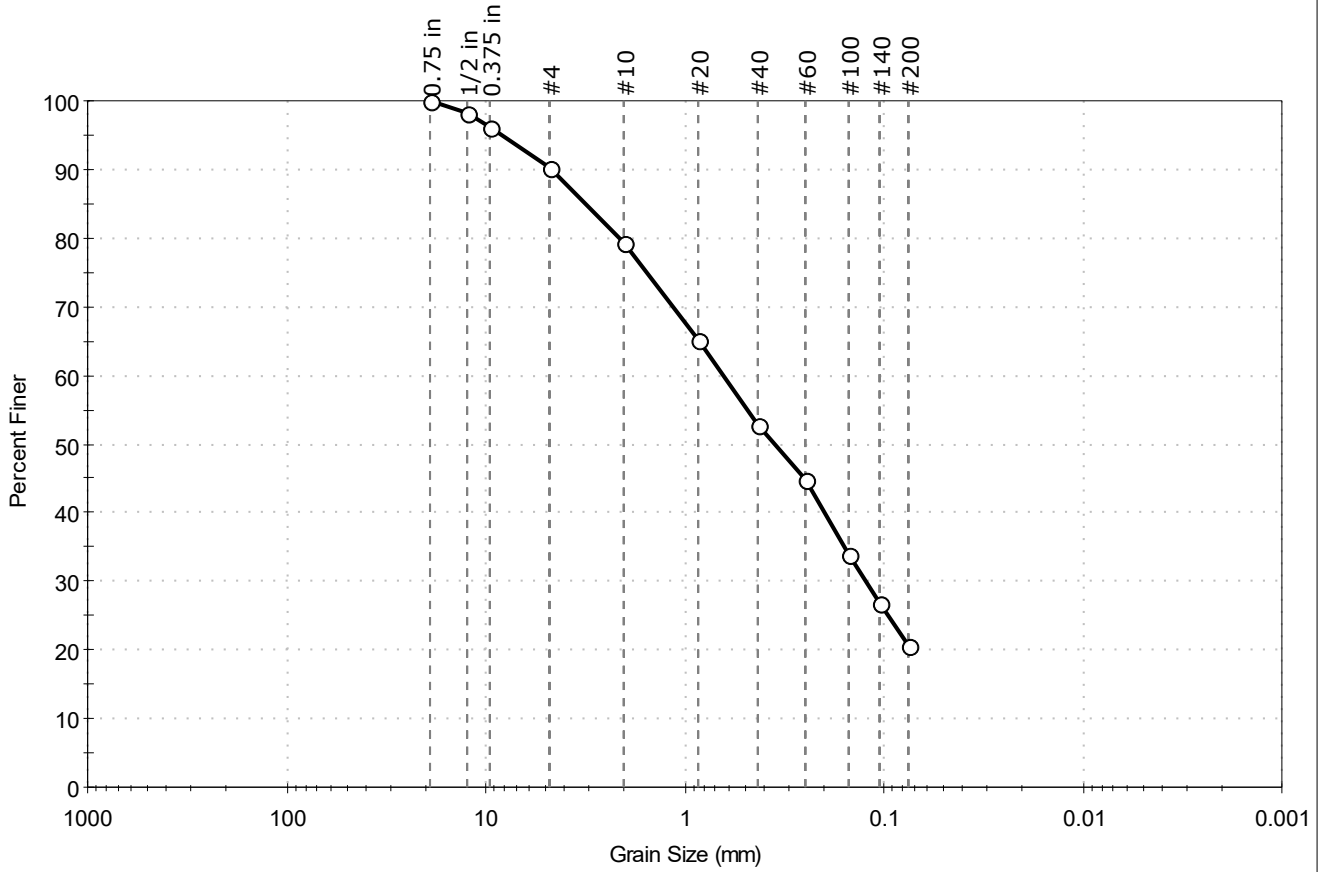
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-8	Sample Type: jar
Sample ID: 31466-008	Test Date: 01/07/19
Depth: ---	Test Id: 488416
Test Comment: ---	Tested By: ckg
Visual Description: Moist, very dark gray silty sand	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	9.7	69.6	20.7

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
1/2 in	12.50	98		
0.375 in	9.50	96		
#4	4.75	90		
#10	2.00	79		
#20	0.85	65		
#40	0.42	53		
#60	0.25	45		
#100	0.15	34		
#140	0.11	27		
#200	0.075	21		

<u>Coefficients</u>	
D ₈₅ = 3.1424 mm	D ₃₀ = 0.1239 mm
D ₆₀ = 0.6338 mm	D ₁₅ = N/A
D ₅₀ = 0.3515 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

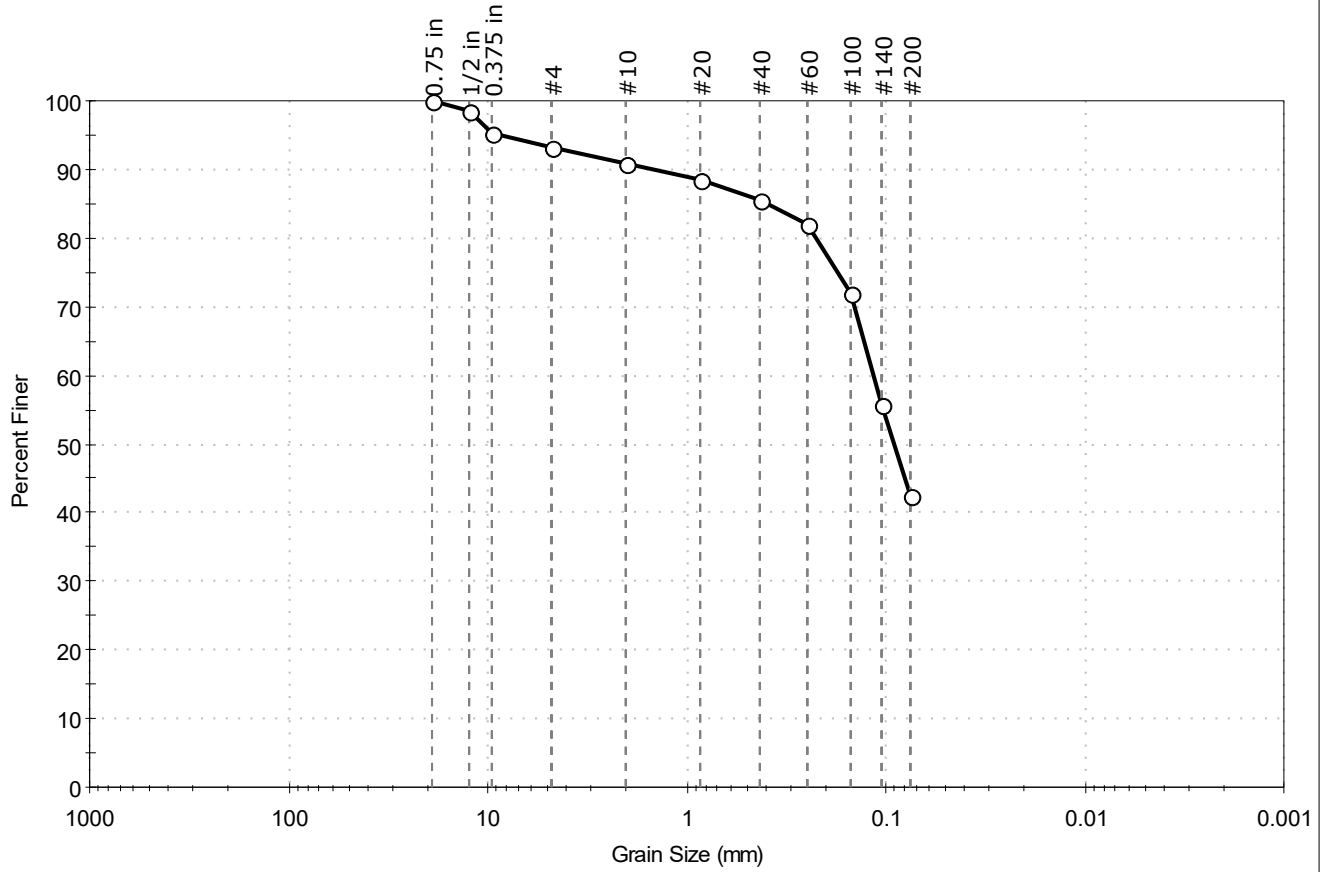
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-9	Sample Type: jar
Sample ID: 31466-009	Test Date: 01/07/19
Depth: ---	Test Id: 488417
Test Comment: ---	Tested By: ckg
Visual Description: Moist, very dark gray silty sand	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	6.7	50.8	42.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
1/2 in	12.50	99		
0.375 in	9.50	95		
#4	4.75	93		
#10	2.00	91		
#20	0.85	89		
#40	0.42	86		
#60	0.25	82		
#100	0.15	72		
#140	0.11	56		
#200	0.075	43		

<u>Coefficients</u>	
D ₈₅ = 0.3872 mm	D ₃₀ = N/A
D ₆₀ = 0.1161 mm	D ₁₅ = N/A
D ₅₀ = 0.0912 mm	D ₁₀ = N/A
C _u = N/A	C _c = N/A

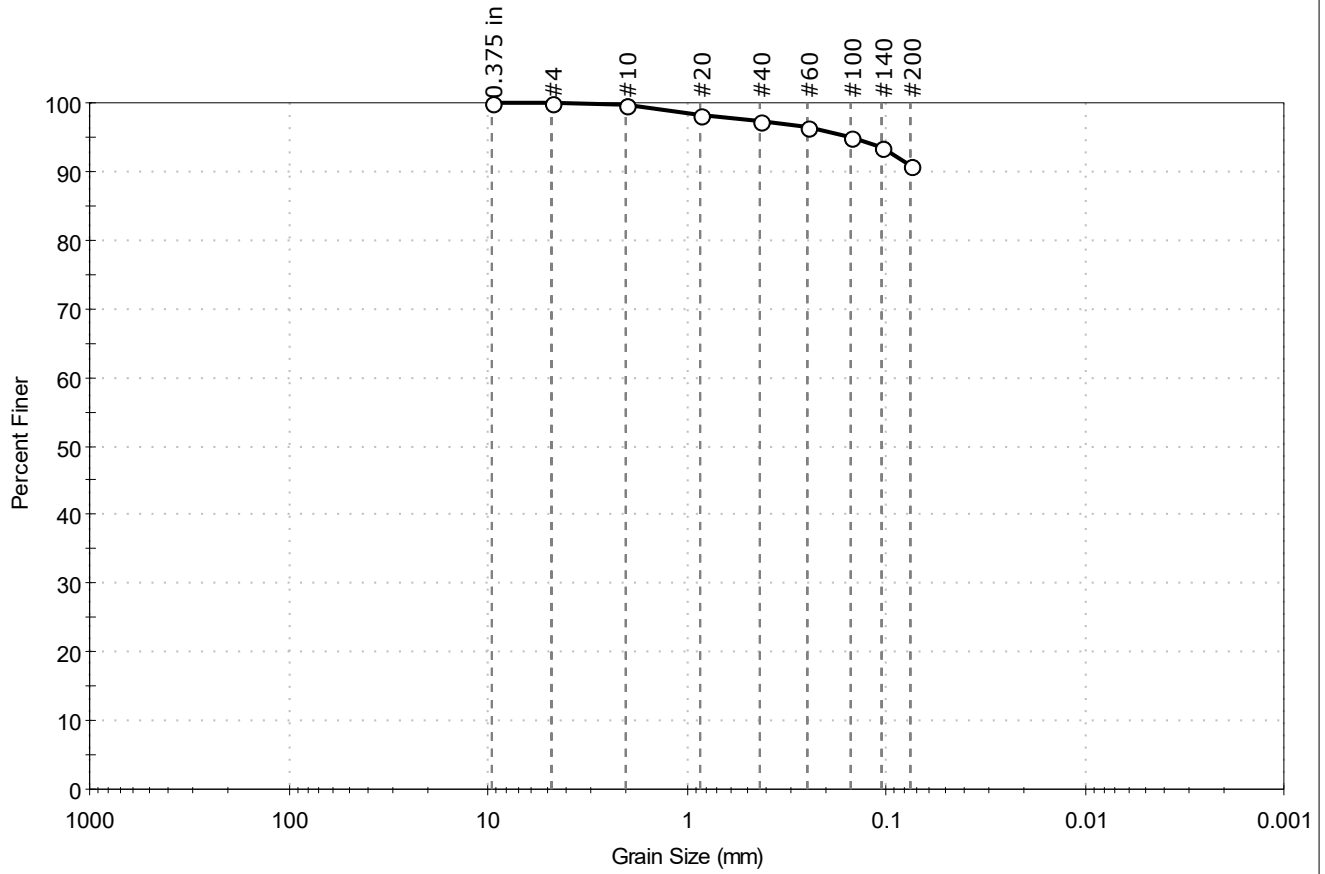
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ROUNDED
Sand/Gravel Hardness : HARD



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-10	Sample Type: jar
Sample ID: 31466-010	Test Date: 01/07/19
Depth: ---	Test Id: 488418
Test Comment: ---	Tested By: ckg
Visual Description: Moist, very dark gray clay	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	9.1	90.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	100		
#20	0.85	98		
#40	0.42	97		
#60	0.25	96		
#100	0.15	95		
#140	0.11	93		
#200	0.075	91		

<u>Coefficients</u>	
D ₈₅ = N/A	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

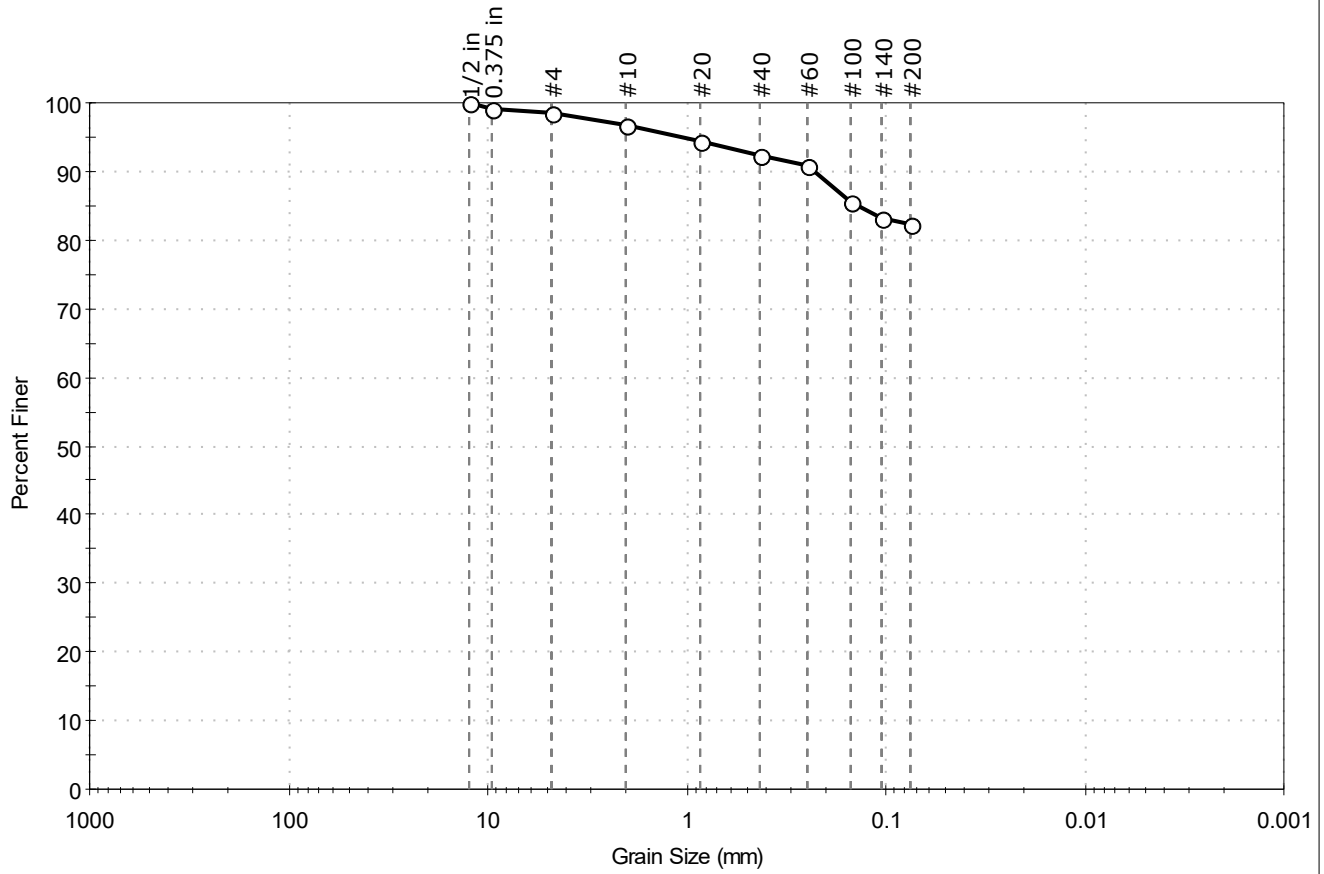
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-11	Sample Type: jar
Sample ID: 31466-011	Test Date: 01/07/19
Depth: ---	Test Id: 488419
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray silt with sand	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	1.6	16.1	82.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1/2 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	98		
#10	2.00	97		
#20	0.85	94		
#40	0.42	92		
#60	0.25	91		
#100	0.15	86		
#140	0.11	83		
#200	0.075	82		

Coefficients	
D ₈₅ = 0.1380 mm	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

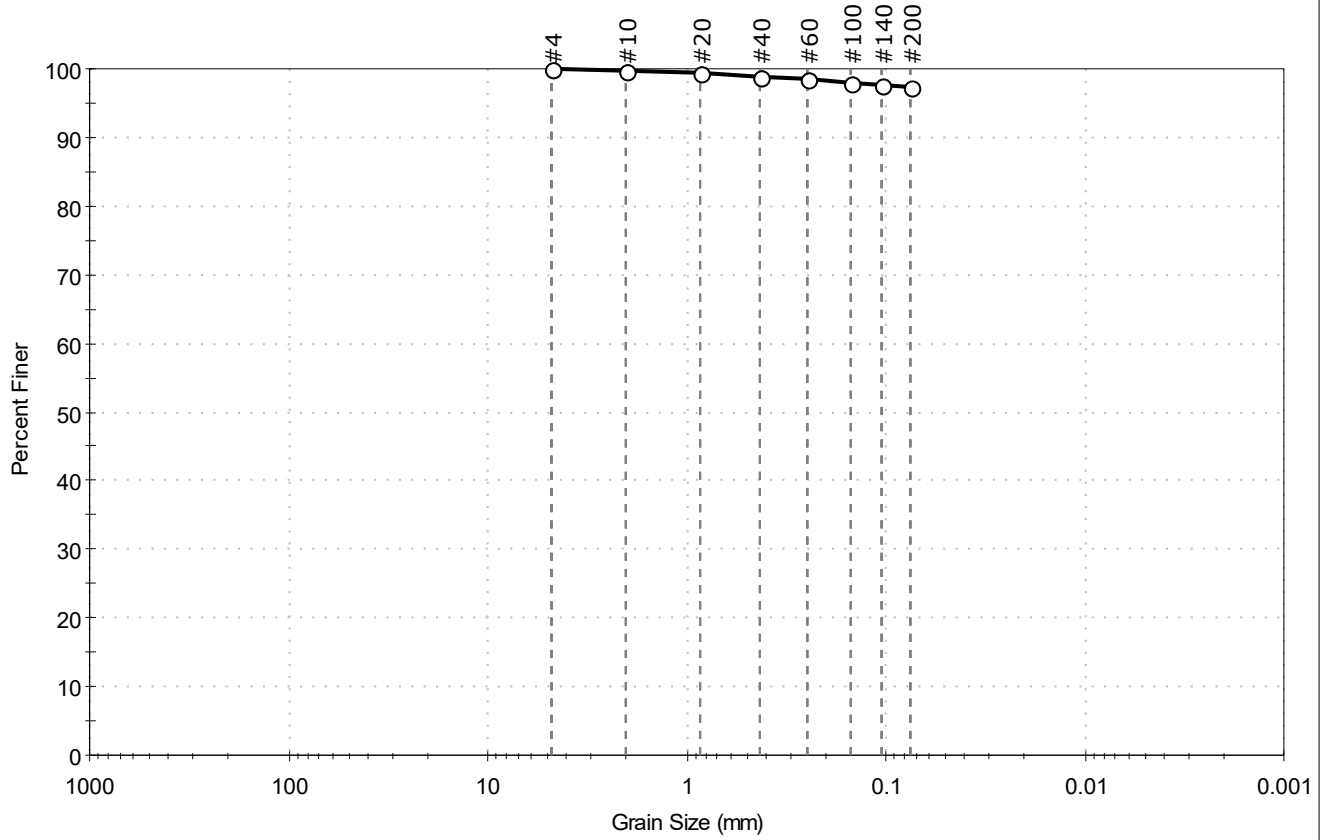
Classification	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

Sample/Test Description
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-12	Sample Type: jar
Sample ID: 31466-012	Test Date: 01/07/19
Depth: ---	Test Id: 488420
Test Comment: ---	Tested By: ckg
Visual Description: Moist, grayish brown clay	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	2.7	97.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	99		
#60	0.25	98		
#100	0.15	98		
#140	0.11	98		
#200	0.075	97		

<u>Coefficients</u>	
D ₈₅ = N/A	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

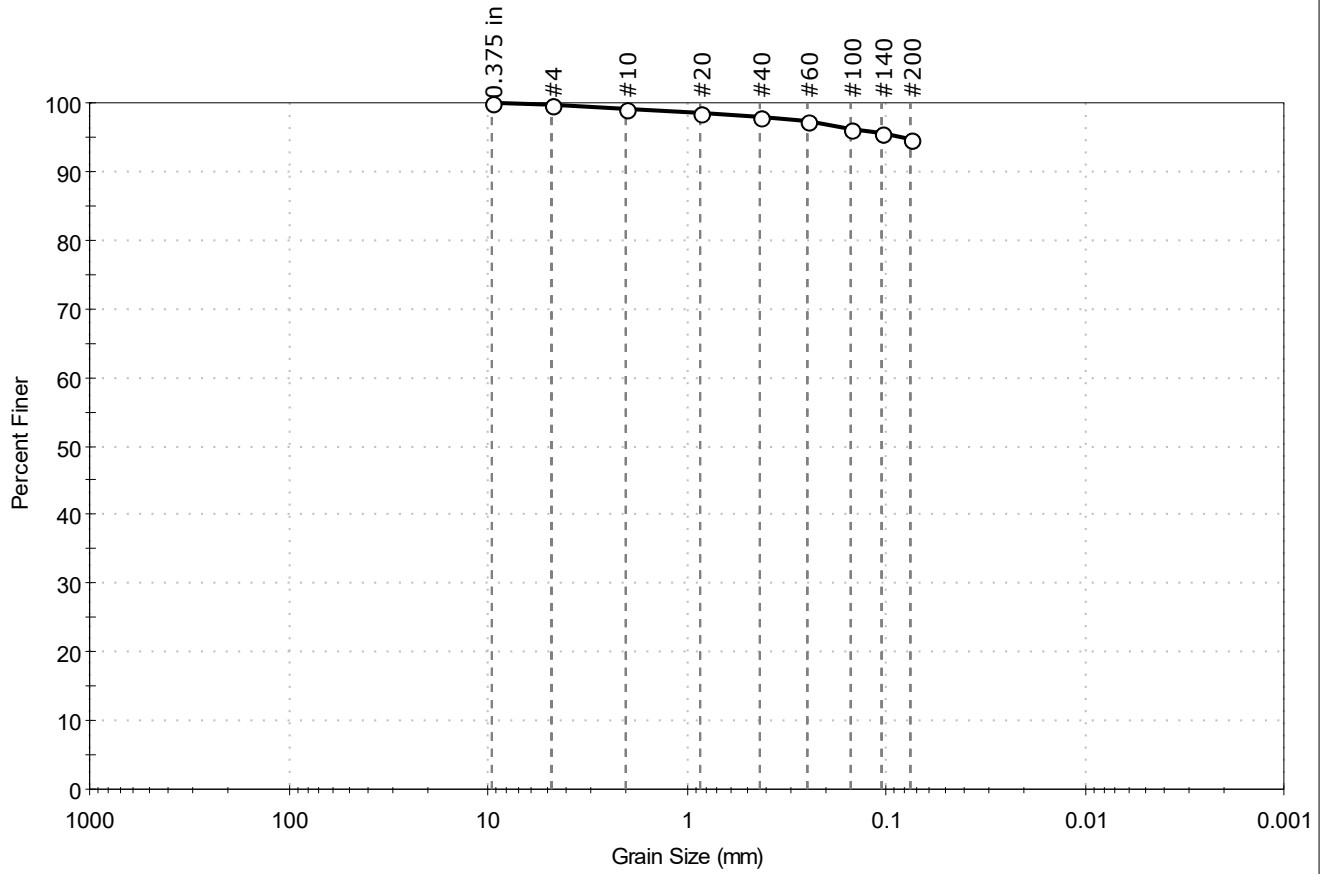
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Montrose Environmental Group	Project No: GTX-309361
Project: 31466	
Location:	
Boring ID: YS-13	Sample Type: jar
Sample ID: 31466-013	Test Date: 01/07/19
Depth: ---	Test Id: 488421
Test Comment: ---	Tested By: ckg
Visual Description: Moist, gray silt	Checked By: emm
Sample Comment: ---	

Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.3	5.1	94.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	99		
#20	0.85	99		
#40	0.42	98		
#60	0.25	97		
#100	0.15	96		
#140	0.11	95		
#200	0.075	95		

<u>Coefficients</u>	
D ₈₅ = N/A	D ₃₀ = N/A
D ₆₀ = N/A	D ₁₅ = N/A
D ₅₀ = N/A	D ₁₀ = N/A
C _u = N/A	C _c = N/A

<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---