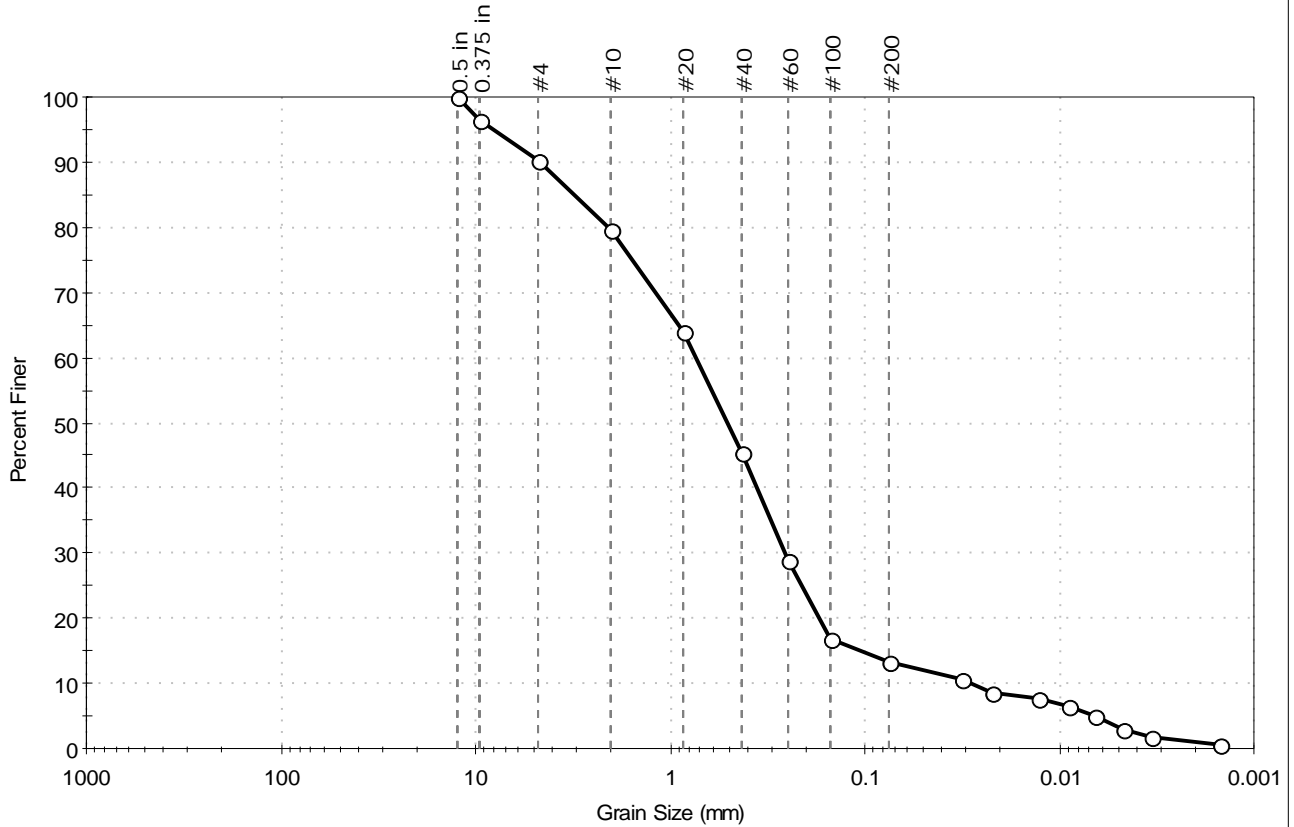




Client: Anchor QEA, LLC	Project No: GTX-301203
Project: Former Gloucester MGP	
Location: USCG Harbor	
Boring ID: ---	Sample Type: bucket
Sample ID: AQ-Beacon-Sed-01	Test Date: 11/26/13
Depth: ---	Test Id: 283038
Test Comment: ---	Tested By: jbr
Sample Description: Moist, black silty sand	Checked By: jdt
Sample Comment: ---	

## Particle Size Analysis - ASTM D422



% Cobble	% Gravel	% Sand	% Silt & Clay Size
---	9.6	77.3	13.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	97		
#4	4.75	90		
#10	2.00	80		
#20	0.85	64		
#40	0.42	45		
#60	0.25	29		
#100	0.15	17		
#200	0.075	13		
---	Particle Size (mm)	Percent Finer	Spec. Percent	Complies
---	0.0318	11		
---	0.0221	8		
---	0.0128	8		
---	0.0091	6		
---	0.0065	5		
---	0.0047	3		
---	0.0034	2		
---	0.0015	1		

<u>Coefficients</u>	
D <sub>85</sub> = 3.0786 mm	D <sub>30</sub> = 0.2595 mm
D <sub>60</sub> = 0.7348 mm	D <sub>15</sub> = 0.1077 mm
D <sub>50</sub> = 0.5043 mm	D <sub>10</sub> = 0.0290 mm
C <sub>u</sub> = 25.338	C <sub>c</sub> = 3.160

<u>Classification</u>	
<u>ASTM</u>	N/A
<u>AASHTO</u>	Stone Fragments, Gravel and Sand (A-1-b (0))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : <b>ROUNDED</b>	
Sand/Gravel Hardness : <b>HARD</b>	
Dispersion Device : Apparatus A - Mech Mixer	
Dispersion Period : 1 minute	
Specific Gravity : 2.65	
Separation of Sample: #200 Sieve	