

Table III-1-2
Sediment Particle Sizes

ASTM (Unified) Classification ¹	U.S. Std. Sieve ²	Size in mm	Phi Size	Wentworth Classification ³
Boulder	12 in. (300 mm)	4096.	-12.0	Boulder
		1024.	-10.0	
Cobble	3 in. (75 mm)	256.	-8.0	Large Cobble
		128.	-7.0	Small Cobble
		107.64	-6.75	
		90.51	-6.5	
		76.11	-6.25	
Coarse Gravel	3/4 in. (19 mm)	64.00	-6.0	Very Large Pebble
		53.82	-5.75	
		45.26	-5.5	
		38.05	-5.25	Large Pebble
		32.00	-5.0	
		26.91	-4.75	
		22.63	-4.5	
Fine Gravel	4 (4.75 mm)	19.03	-4.25	Medium Pebble
		16.00	-4.0	
		13.45	-3.75	Small Pebble
		11.31	-3.5	
		9.51	-3.25	
Coarse Sand	10 (2.0 mm)	8.00	-3.0	Granule
		6.73	-2.75	
		5.66	-2.5	Very Coarse Sand
		4.76	-2.25	
		4.00	-2.0	
		3.36	-1.75	
		2.83	-1.5	
Medium Sand	40 (0.425 mm)	2.38	-1.25	Coarse Sand
		2.00	-1.0	
		1.68	-0.75	Medium Sand
		1.41	-0.5	
		1.19	-0.25	
		1.00	0.0	
		0.84	0.25	
		0.71	0.5	
		0.59	0.75	
		0.50	1.0	
Fine Sand	200 (0.075 mm)	0.420	1.25	Fine Sand
		0.354	1.5	
		0.297	1.75	Very Fine Sand
		0.250	2.0	
		0.210	2.25	
		0.177	2.5	
		0.149	2.75	
		0.125	3.0	
		0.105	3.25	
		0.088	3.5	
Fine-grained Soil:	400	0.074	3.75	Coarse Silt
		0.0625	4.0	
		0.0526	4.25	Medium Silt
		0.0442	4.5	
		0.0372	4.75	
Clay if PI ≥ 4 and plot of PI vs. LL is on or above "A" line and the presence of organic matter does not influence LL.	325	0.0312	5.0	Fine Silt
		0.0156	6.0	
		0.0078	7.0	Very Fine Silt
		0.0039	8.0	
		0.0039	8.0	

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