

		Lithologic classes (macroscopic)			Main lithology (dominant, >50%)	Subordinate lithology (abundant, 25%-50%)	Subordinate lithology (common, 10%-25%)	
					Principal name (required)	Prefix (optional)	Suffix (optional)	
<50% of carbonate, chemical, biogenic	>25% volcanic grains and clasts	Volcanic (>75% volcanic grains and clasts)	→		Ash Tuff Lapilli Lapillistone Volcanic conglomerate Volcanic breccia	Tuffaceous (<25% of nonbiogenic) (25%-75% of nonbiogenic)	With volcanic ash With volcanic clasts	
		Tuffaceous (25%-75% volcanic grains and clasts)	→		Tuffaceous clay Tuffaceous claystone Tuffaceous mud Tuffaceous mudstone Tuffaceous silt Tuffaceous siltstone Tuffaceous sand Tuffaceous sandstone Tuffaceous conglomerate Tuffaceous breccia			
<25% volcanic grains and clasts		Siliciclastic (nonvolcanic siliciclastic > carbonate + chemical + biogenic)	→		Clay Claystone Mud Mudstone Silt Siltstone Sand Sandstone Conglomerate Breccia	Clayey Muddy Silty Sandy Pebbly Conglomeratic	With clay With mud With silt With sand With clasts	
		Other (e.g., authigenic)						
>50% of carbonate, chemical, biogenic	→				Calcareous ooze Calcareous chalk Nannofossil ooze Nannofossil chalk Nannofossil limestone Foraminiferal ooze Foraminiferal chalk Foraminiferal limestone Limestone Biosiliceous Porcellanite Diatom ooze Diatomite Radiolarian ooze Radiolarite Chert	Calcareous Nannofossil-rich Foraminiferal Biosiliceous Diatomaceous Radiolarian-rich Cherty	With nannofossils With foraminifera With bioclasts With shells With diatoms With radiolarians With chert	
(Optional) 2 columns for accessories (rare, 1%-10%)								



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