

Test results of Triaxial compression test for pyroclastic(tuff)(20180606)

Lithology: Tuff(pyr) Chainage: EC0+564.3-566.7 RMR: 38 GSI:35-40

Sample No.	Confining pressure	water content	Nature density	Dry unit weight	Deviator stress	Total minor stress	Total major stress	Strength Parameters	
	Mpa	%	kg/m3	kg/m3	$\sigma_1 - \sigma_3$ (MPa)	σ_3 (MPa)	σ_1 (MPa)	c(MPa)	$\phi(^{\circ})$
Pyr-14	2	6.3	2216	2085	18.0	2	20.0	4.3	31
	4	6.0	2171	2048	21.3	4	25.3		
	6	6.0	2110	1991	28.9	6	34.9		
	8	5.9	2250	2125	34.0	8	42.0		
	10	10.1	2074	1884	32.0	10	42.0		
Pyr-16	2	6.4	2078	1953	21.7	2	23.7	6.1	25
	4	5.6	2055	1946	29.2	4	33.2		
	6	5.9	2030	1917	26.1	6	32.1		
	8	6.0	2031	1916	28.8	8	36.8		
	10	6.3	2076	1953	32.4	10	42.4		
Pyr-17	2	6.0	2007	1893	20.9	2	22.9	5.8	26
	4	5.8	1983	1874	24.6	4	28.6		
	6	7.0	1984	1854	26.7	6	32.7		
	8	6.7	2036	1908	31.4	8	39.4		
	10	6.0	2037	1922	33.3	10	43.3		