

Lateral Earth Pressure Coef. Report

**Peysanj
Geotechnical Engineering Software**

Project Title: Example Earth Pressure Project
Client: ABC Construction
Address: Vancouver, BC
Job Code: 119-521

ABC Consulting Ltd.

Geotechnical Consulting Engineers



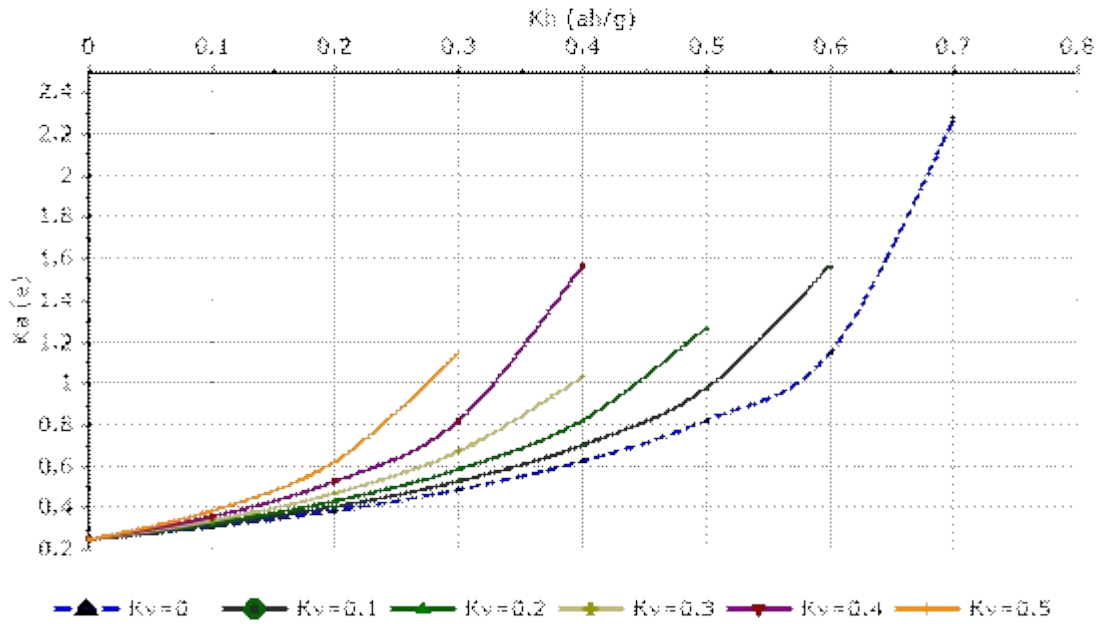
Backslope angle (alpha) = 0 deg. Wall batter angle (beta) = 90 deg.
 Soil-wall friction angle (delta) = 23.4 deg. Backfill friction angle F_i = 35 deg.

Rankin Lateral Earth Pressure (static)
 $K_a=0.271$
 $K_p=3.69$
 Coulomb Lateral Earth Pressure (static)
 $K_a=0.244$
 $K_p=10.028$

Kv (g)	Kh (g)	Kae	Kpe
0	0	0.244	10.028
0	0.1	0.306	9.166
0	0.2	0.384	8.287
0	0.3	0.486	7.384
0	0.4	0.623	6.447
0	0.5	0.82	5.449
0	0.6	1.143	4.326
0	0.7	2.264	2.404
0	0.8	*	*
0	0.9	*	*
0.1	0	0.244	10.028
0.1	0.1	0.314	9.069
0.1	0.2	0.405	8.089
0.1	0.3	0.527	7.077
0.1	0.4	0.701	6.013
0.1	0.5	0.975	4.849
0.1	0.6	1.565	3.37
0.1	0.7	*	*
0.1	0.8	*	*
0.1	0.9	*	*
0.2	0	0.244	10.028
0.2	0.1	0.324	8.948
0.2	0.2	0.432	7.839
0.2	0.3	0.584	6.686
0.2	0.4	0.82	5.449
0.2	0.5	1.265	4.003
0.2	0.6	*	*
0.2	0.7	*	*
0.2	0.8	*	*
0.2	0.9	*	*
0.3	0	0.244	10.028
0.3	0.1	0.337	8.791
0.3	0.2	0.47	7.515
0.3	0.3	0.671	6.17
0.3	0.4	1.029	4.668
0.3	0.5	*	*
0.3	0.6	*	*
0.3	0.7	*	*
0.3	0.8	*	*
0.3	0.9	*	*
0.4	0	0.244	10.028
0.4	0.1	0.356	8.582
0.4	0.2	0.527	7.077
0.4	0.3	0.82	5.449
0.4	0.4	1.565	3.37
0.4	0.5	*	*
0.4	0.6	*	*
0.4	0.7	*	*
0.4	0.8	*	*
0.4	0.9	*	*

0.5	0	0.244	10.028
0.5	0.1	0.384	8.287
0.5	0.2	0.623	6.447
0.5	0.3	1.143	4.326
0.5	0.4	*	*
0.5	0.5	*	*
0.5	0.6	*	*
0.5	0.7	*	*
0.5	0.8	*	*
0.5	0.9	*	*

Mononobe-Okabe K_{ae}



Mononobe-Okabe K_{pa}

