

Appendix 5.4

The following presents the raw laboratory shear vane data from all sensitive samples analysed in this study.

Omokoroa (OS1, OS2)

Date	Sample	Peak strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Peak Strength (kPa)	Remoulded strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Remoulded Strength (kPa)	Sensitivity
26/04/2012	OS1 (Repitition1)	115.00	209.04	48.72	9.00	16.36	3.81	12.78
	OS1 (Repitition2)	49.00	89.07	20.76	6.00	10.91	2.54	8.17
	OS1 (Repitition3)	168.00	305.37	71.18	18.00	32.72	7.63	9.33
11/06/2012	OS1 (Repitition1)	160.00	290.83	67.79	18.00	32.72	7.63	8.89
	OS1 (Repitition2)	142.00	258.11	60.16	20.00	36.35	8.47	7.10
	OS1 (Repitition3)	163.00	296.29	69.06	15.00	27.27	6.36	10.87
Mean				56.28			6.07	9.52
St Dev				19.24			2.38	2.03
St Error				7.86			0.97	0.83

Date	Sample	Peak strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Peak Strength (kPa)	Remoulded strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Remoulded Strength (kPa)	Sensitivity
9/02/2012	OS2 (Repitition1)	40.00	101.68	23.70	7.00	17.79	4.15	5.71
	OS2 (Repitition2)	73.00	185.57	43.25	16.00	40.67	9.48	4.56
	OS2 (Repitition3)	47.00	119.47	27.85	8.00	20.34	4.74	5.88
2/03/2012	OS2 (Repitition1)	42.00	76.34	17.80	6.00	10.91	2.54	7.00
	OS2 (Repitition2)	54.00	98.16	22.88	7.00	12.72	2.97	7.71
	OS2 (Repitition3)	55.00	99.97	23.30	6.00	10.91	2.54	9.17
Mean				26.46			4.40	6.67
St Dev				8.83			2.64	1.64
St Error				3.60			1.08	0.67

Te Puna (TPS1)

Date	Sample	Peak strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Peak Strength (kPa)	Remoulded strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Remoulded Strength (kPa)	Sensitivity
26/04/2012	TPS1	183.0	332.6	77.5	14.0	25.4	5.9	13.1
	TPS1	196.0	356.3	83.0	15.0	27.3	6.4	13.1
	TPS1	190.0	345.4	80.5	34.0	61.8	14.4	5.6
Mean				80.4			8.9	10.6
St Dev				2.8			4.8	4.3
St Error				1.6			2.8	2.5

Pahoia Peninsula (PS1, PS2)

Date	Sample	Peak strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Peak Strength (kPa)	Remoulded strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Remoulded Strength (kPa)	Sensitivity
27/04/2012	PS1 (Repitition1)	53.0	96.3	22.5	4.5	8.2	1.9	11.8
	PS1 (Repitition2)	70.0	127.2	29.7	4.0	7.3	1.7	17.5
	PS1 (Repitition3)	59.0	107.2	25.0	5.5	10.0	2.3	10.7
Mean				25.7			2.0	13.3
St Dev				3.7			0.3	3.6
St Error				2.1			0.2	2.1

Date	Sample	Peak strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Peak Strength (kPa)	Remoulded strength maximum angular rotation of the torsion spring (degrees)	Torque (M)	Remoulded Strength (kPa)	Sensitivity
27/04/2012	PS2 (Repitition1)	91.0	231.3	53.9	5.0	12.7	3.0	18.2
	PS2 (Repitition2)	125.0	317.8	74.1	18.0	45.8	10.7	6.9
	PS2 (Repitition3)	75.0	190.7	44.4	20.0	50.8	11.9	3.8
Mean				57.5			8.5	9.6
St Dev				15.1			4.8	7.6
St Error				8.7			2.8	4.4