

CPT 1/5

In situ data										Basic output data										
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.6	27	0	0	1.6	1.7	4	2.7	17	6.8	0	6.8	234.9	1.7	0	5	0.78	2	2.4	31.9
0.6	2.1	93	0	0	2.1	4.4	3	2.8	18.5	10.5	0	10.5	199.4	4.5	0	4	0.86	2	2.6	41.8
0.8	2.9	76	0	0	2.9	2.6	4	2.6	18.4	14.2	0	14.2	203.9	2.6	0	5	0.76	2	2.4	57.7
1	3.9	111	0	0	3.9	2.8	4	2.5	18.9	17.9	0	17.9	216.4	2.9	0	5	0.74	2	2.3	77.6
1.2	2.4	138	0	0	2.4	5.8	3	2.9	19	21.7	0	21.7	109.4	5.8	0	3	0.88	2	2.7	47.6
1.4	2.7	120	0	0	2.7	4.4	3	2.8	18.9	25.5	0	25.5	104.8	4.5	0	4	0.84	2	2.6	53.5
1.6	2.5	93	0	0	2.5	3.7	4	2.7	18.6	29.2	0	29.2	84.5	3.8	0	4	0.83	2	2.5	49.4
1.8	1.9	53	0	0	1.9	2.8	4	2.8	17.8	32.8	0	32.8	57	2.8	0	4	0.83	2	2.5	37.3
2	2.5	27	0	0	2.5	1.1	5	2.4	17.1	36.2	0	36.2	68	1.1	0	5	0.7	2	2.2	49.3
2.2	1.8	40	0	0	1.8	2.2	4	2.7	17.5	39.7	0	39.7	44.3	2.3	0	4	0.82	2	2.5	35.2
2.4	1.1	31	0	0	1.1	2.8	3	3	17	43.1	0	43.1	24.5	2.9	0	4	0.91	2	2.7	21.1
2.6	1.5	18	2	0	1.5	1.2	4	2.6	16.5	46.4	2	44.4	32.7	1.2	0	5	0.79	1.9	2.4	27.7
2.8	1.7	44	3.9	0	1.7	2.6	4	2.8	17.5	49.9	3.9	46	35.9	2.7	0	4	0.85	1.9	2.6	32
3	1.7	22	5.9	0	1.7	1.3	4	2.6	16.7	53.3	5.9	47.4	34.8	1.3	0	5	0.79	1.8	2.4	29.8
3.2	3.6	102	7.8	0	3.6	2.8	4	2.5	18.8	57	7.8	49.2	72.1	2.9	0	5	0.78	1.7	2.4	61.6
3.4	1.8	76	9.8	0	1.8	4.2	3	2.9	18.2	60.6	9.8	50.8	34.3	4.4	0	4	0.91	1.8	2.7	32.1
3.6	2.5	50	11.8	0	2.5	2	4	2.6	17.8	64.2	11.8	52.4	46.5	2.1	0	5	0.79	1.7	2.4	40.7
3.8	2.5	23	13.7	0	2.5	0.9	5	2.4	16.9	67.6	13.7	53.9	45.2	0.9	0	5	0.73	1.6	2.2	38.2
4	4.6	70	15.7	0	4.6	1.5	5	2.3	18.5	71.3	15.7	55.6	81.5	1.5	0	5	0.7	1.5	2.2	68.3
4.2	5.6	50	17.7	0	5.6	0.9	5	2.1	18.1	74.9	17.7	57.3	96.5	0.9	0	6	0.63	1.4	2	78.4
4.4	5.7	17	19.6	0	5.7	0.3	6	1.9	16.9	78.3	19.6	58.7	95.9	0.3	0	6	0.54	1.3	1.7	75.1
4.6	7.6	73	21.6	0	7.6	1	6	2	18.7	82.1	21.6	60.5	124.4	1	0	6	0.6	1.4	1.9	101.9
4.8	5.6	77	23.5	0	5.6	1.4	5	2.2	18.6	85.8	23.5	62.2	88.7	1.4	0	5	0.68	1.4	2.1	76.2
5	5.3	73	25.5	0	5.3	1.4	5	2.2	18.6	89.5	25.5	64	81.5	1.4	0	5	0.69	1.4	2.1	70.9
5.2	6.9	67	27.5	0	6.9	1	6	2	18.6	93.2	27.5	65.7	103.6	1	0	6	0.62	1.3	1.9	88.5
5.4	7.2	63	29.4	0	7.2	0.9	6	2	18.5	96.9	29.4	67.5	105.4	0.9	0	6	0.61	1.3	1.9	90.4
5.6	9.4	90	31.4	0	9.4	1	6	1.9	19	100.7	31.4	69.3	134.2	1	0	6	0.59	1.2	1.9	115.5
5.8	9.9	100	33.4	0	9.9	1	6	1.9	19.2	104.5	33.4	71.2	137.7	1	0	6	0.59	1.2	1.9	119.9

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.6	27	5	3.40E-07	6	22	30	34	25	32	0	0	0	0.3	0	135	-0.07	0	0	20
0.6	2.1	93	4	9.10E-08	9	29	0	0	0	52	15	139	2.8	0.5	20.3	167	0	1.8	1.6	20
0.8	2.9	76	5	5.60E-07	10	40	41	37	42	52	0	0	0	0.3	0	167	-0.13	0	0	20
1	3.9	111	5	8.90E-07	13	54	47	38	52	65	0	0	0	0.3	0	183	-0.16	0	0	20
1.2	2.4	138	3	6.70E-08	10	33	0	0	0	63	15.8	150	3	0.5	22.4	181	0	1.9	1.2	20
1.4	2.7	120	4	1.50E-07	10	37	0	0	49	61	15.1	178	3.6	0.5	27.6	179	0	2	1.6	20
1.6	2.5	93	4	1.90E-07	9	35	0	0	43	54	14.5	170	3.4	0.5	26.1	170	0	2	1.9	20
1.8	1.9	53	4	1.80E-07	7	26	0	0	33	41	13.7	137	2.7	0.5	19.9	151	0	1.8	2.5	20
2	2.5	27	5	2.10E-06	8	35	38	36	28	35	0	0	0	0.3	0	142	-0.07	0	0	20
2.2	1.8	40	4	2.50E-07	7	25	0	0	29	37	13	135	2.7	0.6	19.7	144	0	1.8	3.1	20
2.4	1.1	31	4	4.50E-08	5	15	0	0	0	30	13.8	77	1.5	0.5	9.7	132	0	1.4	2.4	20
2.6	1.5	18	5	4.10E-07	5	20	28	33	22	28	0	0	0	0.3	0	129	-0.04	0	0	20
2.8	1.7	44	4	1.40E-07	7	23	0	0	30	38	13.5	122	2.4	0.5	16.6	146	0	1.7	2.6	20
3	1.7	22	5	4.30E-07	6	23	29	34	25	31	0	0	0	0.3	0	135	-0.05	0	0	20
3.2	3.6	102	5	5.40E-07	12	50	42	37	52	65	0	0	0	0.3	0	184	-0.14	0	0	20
3.4	1.8	76	4	5.40E-08	8	24	0	0	0	48	15	116	2.1	0.5	14.7	161	0	1.6	1.6	20
3.6	2.5	50	5	4.20E-07	9	34	34	35	37	46	0	0	0	0.3	0	160	-0.09	0	0	20
3.8	2.5	23	5	1.40E-06	8	34	33	35	30	37	0	0	0	0.3	0	147	-0.04	0	0	20
4	4.6	70	5	2.50E-06	14	63	44	38	50	63	0	0	0	0.3	0	183	-0.11	0	0	20
4.2	5.6	50	6	9.40E-06	15	60	47	38	48	60	0	0	0	0.3	0	180	-0.1	0	0	20
4.4	5.7	17	6	4.60E-05	13	46	46	38	37	46	0	0	0	0.3	0	163	-0.07	0	0	20
4.6	7.6	73	6	1.50E-05	19	75	54	40	60	75	0	0	0	0.3	0	198	-0.13	0	0	20
4.8	5.6	77	5	3.90E-06	16	70	47	38	56	70	0	0	0	0.3	0	192	-0.11	0	0	20
5	5.3	73	5	3.20E-06	15	69	45	38	55	69	0	0	0	0.3	0	190	-0.11	0	0	20
5.2	6.9	67	6	1.10E-05	18	72	50	39	58	72	0	0	0	0.3	0	195	-0.11	0	0	20
5.4	7.2	63	6	1.40E-05	18	72	51	39	57	72	0	0	0	0.3	0	195	-0.11	0	0	20
5.6	9.4	90	6	2.10E-05	23	88	57	40	70	88	0	0	0	0.3	0	212	-0.14	0	0	20
5.8	9.9	100	6	2.00E-05	24	93	59	40	74	93	0	0	0	0.3	0	218	-0.15	0	0	20

CPT 2/5																						
In situ data											Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ' _{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn		
0.4	6.4	93	0	0	6.4	1.5	5	2.2	18.9	7.6	0	7.6	845	1.5	0	6	0.59	2	1.9	127.8		
0.6	1.5	44	0	0	1.5	2.9	3	2.9	17.5	11.1	0	11.1	134.6	3	0	4	0.85	2	2.6	29.8		
0.8	1	27	0	0	1	2.7	3	3	16.8	14.4	0	14.4	68.3	2.7	0	4	0.9	2	2.7	19.7		
1	0.5	18	0	0	0.5	3.6	3	3.3	16	17.6	0	17.6	27.4	3.7	0	3	1	2	3.1	9.6		
1.2	0.4	13	0	0	0.4	3.3	3	3.4	15.6	20.7	0	20.7	18.3	3.4	0	3	1	2	3.1	7.6		
1.4	0.6	18	0	0	0.6	3	3	3.2	16.1	24	0	24	24	3.1	0	3	0.99	2	3	11.5		
1.6	0.8	76	2	0	0.8	9.5	3	3.4	17.9	27.5	2	25.6	30.2	9.8	0	3	1	2	3.2	15.5		
1.8	1	20	3.9	0	1	2	4	2.9	16.4	30.8	3.9	26.9	36	2.1	0	4	0.88	2	2.7	19.4		
2	8.4	17	5.9	0	8.4	0.2	6	1.6	17.1	34.2	5.9	28.4	295	0.2	0	6	0.41	1.7	1.4	139.6		
2.2	13.8	43	7.8	0	13.8	0.3	6	1.5	18.3	37.9	7.8	30.1	457.8	0.3	0	6	0.38	1.6	1.3	216		
2.4	2.5	63	9.8	0	2.5	2.5	4	2.6	18.1	41.5	9.8	31.7	77.6	2.6	0	5	0.78	2	2.4	49.2		
2.6	2.3	27	11.8	0	2.3	1.2	5	2.5	17.1	45	11.8	33.2	68	1.2	0	5	0.72	2	2.2	45.1		
2.8	3.6	50	13.7	0	3.6	1.4	5	2.4	18	48.5	13.7	34.8	102.1	1.4	0	5	0.67	2	2.1	71.1		
3	3.6	77	15.7	0	3.6	2.1	5	2.5	18.5	52.2	15.7	36.5	97.2	2.2	0	5	0.72	2	2.2	71		
3.2	6.8	80	17.7	0	6.8	1.2	5	2.1	18.8	56	17.7	38.3	176	1.2	0	6	0.59	1.8	1.9	119.2		
3.4	6	80	19.6	0	6	1.3	5	2.2	18.7	59.7	19.6	40.1	148.2	1.3	0	6	0.62	1.8	2	105.1		
3.6	6.6	77	21.6	0	6.6	1.2	5	2.1	18.7	63.5	21.6	41.9	156.1	1.2	0	6	0.6	1.7	1.9	110.6		
3.8	7.1	60	23.5	0	7.1	0.8	6	2	18.4	67.2	23.5	43.6	161.3	0.9	0	6	0.57	1.6	1.8	112.7		
4	7.6	67	25.5	0	7.6	0.9	6	2	18.6	70.9	25.5	45.4	166	0.9	0	6	0.57	1.6	1.8	117.9		
4.2	7.1	57	27.5	0	7.1	0.8	6	2	18.4	74.6	27.5	47.1	149.3	0.8	0	6	0.57	1.5	1.8	107.9		
4.4	7.2	77	29.4	0	7.2	1.1	6	2	18.7	78.3	29.4	48.9	145.8	1.1	0	6	0.6	1.5	1.9	109.4		
4.6	8.3	60	31.4	0	8.3	0.7	6	1.9	18.5	82	31.4	50.6	162.4	0.7	0	6	0.55	1.5	1.8	119.4		
4.8	7.9	83	33.4	0	7.9	1	6	2	18.9	85.8	33.4	52.4	149.1	1.1	0	6	0.59	1.5	1.9	114.7		
5	7.3	63	35.3	0	7.3	0.9	6	2	18.5	89.5	35.3	54.2	133.2	0.9	0	6	0.59	1.4	1.9	103.4		
5.2	9.3	87	37.3	0	9.3	0.9	6	1.9	19	93.3	37.3	56	164.5	0.9	0	6	0.57	1.4	1.8	128.1		
5.4	9.9	87	39.2	0	9.9	0.9	6	1.9	19	97.1	39.2	57.9	169.6	0.9	0	6	0.56	1.4	1.8	133.1		
5.6	14.9	80	41.2	0	14.9	0.5	6	1.6	19.1	100.9	41.2	59.7	248	0.5	0	6	0.46	1.3	1.5	187.9		
5.8	16.3	90	43.2	0	16.3	0.6	6	1.6	19.2	104.8	43.2	61.6	263.1	0.6	0	6	0.46	1.2	1.5	202.2		
In situ data											Estimations											
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)		
0.4	6.4	93	6	1.10E-05	17	67	60	41	54	67	0	0	0	0.3	0	187	-0.16	0	0	20		
0.6	1.5	44	4	1.00E-07	6	21	0	0	0	37	13.8	108	2.2	0.5	14.8	144	0	1.7	2.4	20		
0.8	1	27	4	4.30E-08	4	14	0	0	0	28	13.6	73	1.5	0.5	9	129	0	1.4	2.6	20		
1	0.5	18	3	4.30E-09	3	5	0	0	0	21	14.5	33	0.7	0.4	3.4	113	0	1	1.9	20		
1.2	0.4	13	3	2.80E-09	2	3	0	0	0	18	14.2	27	0.5	0.3	2.6	106	0	0.9	2	20		
1.4	0.6	18	3	9.20E-09	3	7	0	0	0	22	14	41	0.8	0.4	4.4	115	0	1.1	2.2	20		
1.6	0.8	76	3	2.00E-09	5	11	0	0	0	39	17.4	44	0.9	0.3	4.9	146	0	1.1	0.7	20		
1.8	1	20	4	7.00E-08	4	14	0	0	0	26	12.7	76	1.5	0.5	9.6	124	0	1.4	3.4	20		
2	8.4	17	6	4.10E-04	16	46	63	41	37	46	0	0	0	0.3	0	162	-0.15	0	0	20		
2.2	13.8	43	6	7.50E-04	24	68	79	43	54	68	0	0	0	0.3	0	190	-0.21	0	0	20		
2.4	2.5	63	5	4.20E-07	9	34	37	36	37	47	0	0	0	0.3	0	159	-0.12	0	0	20		
2.6	2.3	27	5	1.50E-06	7	32	36	36	27	34	0	0	0	0.3	0	140	-0.07	0	0	20		
2.8	3.6	50	5	3.20E-06	10	47	45	38	37	47	0	0	0	0.3	0	160	-0.11	0	0	20		
3	3.6	77	5	1.30E-06	11	50	45	38	44	55	0	0	0	0.3	0	171	-0.13	0	0	20		
3.2	6.8	80	6	1.50E-05	17	67	58	40	54	67	0	0	0	0.3	0	188	-0.15	0	0	20		
3.4	6	80	6	8.60E-06	16	66	55	40	52	66	0	0	0	0.3	0	185	-0.14	0	0	20		
3.6	6.6	77	6	1.30E-05	17	67	56	40	54	67	0	0	0	0.3	0	188	-0.14	0	0	20		
3.8	7.1	60	6	2.50E-05	17	64	57	40	51	64	0	0	0	0.3	0	184	-0.13	0	0	20		
4	7.6	67	6	2.60E-05	18	68	58	40	54	68	0	0	0	0.3	0	190	-0.14	0	0	20		
4.2	7.1	57	6	2.50E-05	17	64	56	40	51	64	0	0	0	0.3	0	185	-0.13	0	0	20		
4.4	7.2	77	6	1.50E-05	18	71	56	40	57	71	0	0	0	0.3	0	193	-0.14	0	0	20		
4.6	8.3	60	6	3.90E-05	19	69	58	40	55	69	0	0	0	0.3	0	191	-0.14	0	0	20		
4.8	7.9	83	6	1.70E-05	20	76	57	40	61	76	0	0	0	0.3	0	199	-0.14	0	0	20		
5	7.3	63	6	2.00E-05	18	69	54	40	55	69	0	0	0	0.3	0	191	-0.13	0	0	20		
5.2	9.3	87	6	2.80E-05	22	82	60	41	66	82	0	0	0	0.3	0	206	-0.15	0	0	20		
5.4	9.9	87	6	3.40E-05	23	84	62	41	67	84	0	0	0	0.3	0	209	-0.15	0	0	20		
5.6	14.9	80	6	2.00E-04	30	92	73	43	74	92	0	0	0	0.3	0	218	-0.19	0	0	20		
5.8	16.3	90	6	2.30E-04	32	99	76	43	79	99	0	0	0	0.3	0	225	-0.2	0	0	20		

CPT 3/5

In situ data									Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ' _{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.8	53	0	0	1.8	2.9	4	2.8	17.8	7.1	0	7.1	252.1	3	0	4	0.83	2	2.6	35.9
0.6	1.8	40	0	0	1.8	2.2	4	2.7	17.5	10.6	0	10.6	168.8	2.2	0	5	0.8	2	2.5	35.8
0.8	1.5	40	0	0	1.5	2.7	4	2.8	17.4	14.1	0	14.1	105.5	2.7	0	4	0.84	2	2.6	29.7
1	1.1	36	0	0	1.1	3.3	3	3	17.1	17.5	0	17.5	61.8	3.3	0	4	0.91	2	2.8	21.6
1.2	0.5	40	0	0	0.5	8	2	3.5	17	20.9	0	20.9	22.9	8.3	0	3	1	2	3.3	9.6
1.4	1.3	62	0	0	1.3	4.8	3	3	17.8	24.5	0	24.5	52.1	4.9	0	3	0.93	2	2.8	25.5
1.6	2.5	107	0	0	2.5	4.3	3	2.8	18.7	28.2	0	28.2	87.6	4.3	0	4	0.84	2	2.6	49.4
1.8	3.9	53	0	0	3.9	1.4	5	2.3	18.1	31.8	0	31.8	121.5	1.4	0	5	0.66	2	2.1	77.4
2	5.5	77	0	0	5.5	1.4	5	2.2	18.6	35.6	0	35.6	153.7	1.4	0	6	0.63	1.9	2	104.6
2.2	5.4	60	0	0	5.4	1.1	5	2.2	18.3	39.2	0	39.2	136.7	1.1	0	6	0.62	1.8	2	95.3
2.4	4.7	30	0	0	4.7	0.6	5	2.1	17.5	42.7	0	42.7	109	0.6	0	6	0.59	1.7	1.9	77
2.6	3.5	63	0	0	3.5	1.8	5	2.4	18.2	46.4	0	46.4	74.5	1.8	0	5	0.73	1.8	2.2	60.5
2.8	2.3	37	2	0	2.3	1.6	4	2.6	17.5	49.9	1.8	48.1	46.8	1.6	0	5	0.77	1.8	2.4	39.6
3	2.8	30	3.9	0	2.8	1.1	5	2.4	17.3	53.3	3.7	49.6	55.4	1.1	0	5	0.72	1.7	2.2	45.4
3.2	1.2	18	5.9	0	1.2	1.5	4	2.8	16.4	56.6	5.7	50.9	22.5	1.6	0	4	0.86	1.8	2.6	20.4
3.4	3.9	151	7.8	0	3.9	3.9	4	2.6	19.3	60.5	7.7	52.8	72.7	3.9	0	4	0.81	1.7	2.5	64.6
3.6	5.5	76	9.8	0	5.5	1.4	5	2.2	18.6	64.2	9.6	54.6	99.7	1.4	0	5	0.67	1.5	2.1	81.4
3.8	8.5	107	11.8	0	8.5	1.3	6	2	19.2	68	11.6	56.4	149.4	1.3	0	6	0.61	1.4	1.9	119.6
4	3.4	30	13.7	0	3.4	0.9	5	2.3	17.4	71.5	13.5	58	57.5	0.9	0	5	0.69	1.5	2.1	48.6
4.2	5.5	57	15.7	0	5.5	1	5	2.1	18.3	75.1	15.5	59.6	91	1.1	0	6	0.65	1.4	2	75.9
4.4	5.5	153	17.7	0	5.5	2.8	5	2.4	19.4	79	17.5	61.6	88.1	2.8	0	5	0.76	1.4	2.3	78.3
4.6	5.6	70	19.6	0	5.6	1.2	5	2.2	18.5	82.7	19.4	63.3	87.2	1.3	0	5	0.67	1.4	2.1	75
4.8	11.4	80	21.6	0	11.4	0.7	6	1.8	19	86.5	21.4	65.1	173.7	0.7	0	6	0.53	1.3	1.7	142
5	15.6	100	23.5	0	15.6	0.6	6	1.6	19.3	90.4	23.3	67.1	231.4	0.6	0	6	0.48	1.2	1.6	188.3
5.2	12.7	97	25.5	0	12.7	0.8	6	1.8	19.2	94.2	25.3	68.9	182.9	0.8	0	6	0.53	1.2	1.7	153.6
5.4	18.4	130	27.5	0	18.4	0.7	6	1.6	19.7	98.2	27.3	70.9	258.2	0.7	0	6	0.48	1.2	1.6	215.9
5.6	14.5	117	29.4	0	14.5	0.8	6	1.7	19.5	102.1	29.2	72.9	197.7	0.8	0	6	0.53	1.2	1.7	170.1
5.8	14.3	95	31.4	0	14.3	0.7	6	1.7	19.2	105.9	31.2	74.7	190	0.7	0	6	0.51	1.2	1.6	164.7

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.8	53	4	1.50E-07	7	25	0	0	33	41	13.8	130	2.6	0.5	18.7	150	0	1.8	2.4	20
0.6	1.8	40	5	2.60E-07	7	25	32	35	30	37	0	0	0	0.3	0	144	-0.09	0	0	20
0.8	1.5	40	4	1.20E-07	6	21	0	0	28	36	13.5	110	2.2	0.5	15.2	142	0	1.7	2.6	20
1	1.1	36	4	3.80E-08	5	15	0	0	0	32	14.2	76	1.5	0.4	9.6	135	0	1.4	2.1	20
1.2	0.5	40	3	9.60E-10	3	5	0	0	0	28	17	28	0.6	0.3	2.8	126	0	0.9	0.8	20
1.4	1.3	62	3	2.60E-08	6	18	0	0	0	40	15.3	83	1.7	0.4	10.7	149	0	1.5	1.4	20
1.6	2.5	107	4	1.40E-07	10	35	0	0	46	58	15	165	3.3	0.5	25.2	174	0	2	1.6	20
1.8	3.9	53	5	4.10E-06	11	49	47	38	39	49	0	0	0	0.3	0	163	-0.11	0	0	20
2	5.5	77	6	7.80E-06	15	61	55	40	49	61	0	0	0	0.3	0	180	-0.14	0	0	20
2.2	5.4	60	6	1.00E-05	14	58	52	39	46	58	0	0	0	0.3	0	175	-0.12	0	0	20
2.4	4.7	30	6	1.60E-05	12	46	47	38	37	46	0	0	0	0.3	0	160	-0.09	0	0	20
2.6	3.5	63	5	1.30E-06	11	48	42	37	43	53	0	0	0	0.3	0	170	-0.11	0	0	20
2.8	2.3	37	5	6.00E-07	8	32	34	35	32	40	0	0	0	0.3	0	150	-0.08	0	0	20
3	2.8	30	5	1.70E-06	9	38	36	36	32	40	0	0	0	0.3	0	151	-0.06	0	0	20
3.2	1.2	18	4	1.30E-07	5	16	0	0	22	27	11.9	96	1.7	0.5	11.2	127	0	1.5	4.5	20
3.4	3.9	151	4	3.00E-07	14	54	0	0	62	78	14.7	262	4.4	0.6	36.1	199	0	2.2	1.8	20
3.6	5.5	76	5	4.50E-06	16	68	48	39	54	68	0	0	0	0.3	0	189	-0.12	0	0	20
3.8	8.5	107	6	1.30E-05	22	86	58	40	69	86	0	0	0	0.3	0	210	-0.15	0	0	20
4	3.4	30	5	2.90E-06	10	45	37	36	36	45	0	0	0	0.3	0	159	-0.06	0	0	20
4.2	5.5	57	6	6.60E-06	15	63	47	38	50	63	0	0	0	0.3	0	184	-0.1	0	0	20
4.4	5.5	153	5	9.30E-07	18	76	47	38	71	89	0	0	0	0.3	0	213	-0.16	0	0	20
4.6	5.6	70	5	4.50E-06	16	69	46	38	55	69	0	0	0	0.3	0	190	-0.11	0	0	20
4.8	11.4	80	6	6.20E-05	25	87	64	41	70	87	0	0	0	0.3	0	213	-0.16	0	0	20
5	15.6	100	6	1.40E-04	32	103	73	43	82	103	0	0	0	0.3	0	228	-0.19	0	0	20
5.2	12.7	97	6	6.30E-05	28	97	66	42	77	97	0	0	0	0.3	0	222	-0.17	0	0	20
5.4	18.4	130	6	1.60E-04	37	119	79	43	95	119	0	0	0	0.3	0	243	-0.21	0	0	20
5.6	14.5	117	6	7.20E-05	32	108	70	42	86	108	0	0	0	0.3	0	234	-0.18	0	0	20
5.8	14.3	95	6	9.80E-05	30	101	69	42	81	101	0	0	0	0.3	0	227	-0.17	0	0	20

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In situ data									Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.5	53	0	0	1.5	3.5	3	2.9	17.7	7.1	0	7.1	210.7	3.6	0	4	0.87	2	2.7	29.9
0.6	1.3	58	0	0	1.3	4.5	3	3	17.8	10.6	0	10.6	121.2	4.5	0	3	0.92	2	2.8	25.8
0.8	2.1	36	0	0	2.1	1.7	4	2.6	17.4	14.1	0	14.1	147.8	1.7	0	5	0.75	2	2.4	41.7
1	2.7	58	0	0	2.7	2.1	4	2.6	18	17.7	0	17.7	151.3	2.2	0	5	0.75	2	2.3	53.6
1.2	1.9	31	0	0	1.9	1.6	4	2.6	17.2	21.2	0	21.2	88.8	1.6	0	5	0.77	2	2.4	37.6
1.4	1.2	67	0	0	1.2	5.6	3	3.1	17.9	24.7	0	24.7	47.5	5.7	0	3	0.96	2	2.9	23.5
1.6	1.8	40	0	0	1.8	2.2	4	2.7	17.5	28.2	0	28.2	62.8	2.3	0	5	0.81	2	2.5	35.4
1.8	2.5	40	0	0	2.5	1.6	5	2.5	17.6	31.7	0	31.7	77.7	1.6	0	5	0.73	2	2.3	49.4
2	2.1	31	0	0	2.1	1.5	4	2.6	17.2	35.2	0	35.2	58.7	1.5	0	5	0.75	2	2.3	41.3
2.2	1.8	49	0	0	1.8	2.7	4	2.8	17.7	38.7	0	38.7	45.5	2.8	0	4	0.84	2	2.5	35.2
2.4	1.7	62	0	0	1.7	3.6	3	2.9	17.9	42.3	0	42.3	39.2	3.7	0	4	0.88	2	2.6	33.2
2.6	3.5	37	0	0	3.5	1.1	5	2.3	17.6	45.8	0	45.8	75.4	1.1	0	5	0.68	1.7	2.1	58.6
2.8	4.8	40	2	0	4.8	0.8	5	2.1	17.8	49.4	0.9	48.5	97.9	0.8	0	6	0.62	1.6	2	74.5
3	6.2	47	3.9	0	6.2	0.8	6	2	18.1	53	2.8	50.2	122.5	0.8	0	6	0.59	1.5	1.9	92.1
3.2	7	57	5.9	0	7	0.8	6	2	18.4	56.7	4.8	51.9	133.8	0.8	0	6	0.58	1.5	1.9	101.6
3.4	8.3	67	7.8	0	8.3	0.8	6	1.9	18.6	60.4	6.8	53.7	153.6	0.8	0	6	0.56	1.4	1.8	117
3.6	6.9	37	9.8	0	6.9	0.5	6	1.9	17.9	64	8.7	55.3	123.7	0.5	0	6	0.55	1.4	1.8	94.9
3.8	5.9	30	11.8	0	5.9	0.5	6	1.9	17.6	67.5	10.7	56.8	102.7	0.5	0	6	0.57	1.4	1.8	80.6
4	5.7	50	13.7	0	5.7	0.9	5	2.1	18.2	71.2	12.7	58.5	96.3	0.9	0	6	0.63	1.4	2	78.8
4.2	4.7	57	15.7	0	4.7	1.2	5	2.2	18.2	74.8	14.6	60.2	76.9	1.2	0	5	0.68	1.4	2.1	65.5
4.4	4.9	53	17.7	0	4.9	1.1	5	2.2	18.2	78.4	16.6	61.9	78	1.1	0	5	0.67	1.4	2.1	66.6
4.6	4.7	53	19.6	0	4.7	1.1	5	2.2	18.1	82.1	18.5	63.5	72.8	1.1	0	5	0.68	1.4	2.1	63
4.8	9.1	20	21.6	0	9.1	0.2	6	1.6	17.3	85.5	20.5	65	138.7	0.2	0	6	0.47	1.2	1.5	110.3
5	8.8	80	23.5	0	8.8	0.9	6	1.9	18.9	89.3	22.5	66.8	130.4	0.9	0	6	0.59	1.3	1.9	110.5
5.2	7.2	90	25.5	0	7.2	1.2	5	2.1	18.9	93.1	24.4	68.7	103.6	1.3	0	6	0.65	1.3	2	90.8
5.4	12.9	70	27.5	0	12.9	0.5	6	1.7	18.9	96.9	26.4	70.5	181.8	0.5	0	6	0.5	1.2	1.6	152.4
5.6	20.7	80	29.4	0	20.7	0.4	6	1.4	19.2	100.7	28.4	72.3	284.8	0.4	0	6	0.41	1.1	1.4	235
5.8	19.9	75	31.4	0	19.9	0.4	6	1.4	19.1	104.5	30.3	74.2	266.9	0.4	0	6	0.41	1.1	1.4	223.9

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.5	53	4	7.00E-08	6	21	0	0	0	39	14.4	104	2.1	0.5	14.1	148	0	1.6	2	20
0.6	1.3	58	3	3.10E-08	6	18	0	0	0	39	15.1	86	1.7	0.4	11.1	147	0	1.5	1.6	20
0.8	2.1	36	5	6.20E-07	7	29	35	35	30	37	0	0	0	0.3	0	145	-0.08	0	0	20
1	2.7	58	5	7.20E-07	9	38	39	37	37	46	0	0	0	0.3	0	159	-0.11	0	0	20
1.2	1.9	31	5	5.30E-07	7	26	33	35	27	34	0	0	0	0.3	0	140	-0.07	0	0	20
1.4	1.2	67	3	1.50E-08	6	16	0	0	0	41	15.8	74	1.5	0.4	9.3	149	0	1.4	1.2	20
1.6	1.8	40	5	2.50E-07	7	25	32	35	30	37	0	0	0	0.3	0	144	-0.09	0	0	20
1.8	2.5	40	5	1.00E-06	8	35	38	36	32	40	0	0	0	0.3	0	149	-0.09	0	0	20
2	2.1	31	5	7.90E-07	7	29	34	35	28	35	0	0	0	0.3	0	141	-0.07	0	0	20
2.2	1.8	49	4	1.70E-07	7	25	0	0	32	40	13.6	129	2.6	0.5	18.6	148	0	1.8	2.5	20
2.4	1.7	62	4	8.00E-08	7	23	0	0	0	43	14.5	114	2.3	0.5	15.9	153	0	1.7	1.9	20
2.6	3.5	37	5	3.40E-06	10	45	41	37	36	45	0	0	0	0.3	0	158	-0.08	0	0	20
2.8	4.8	40	6	9.50E-06	13	52	46	38	41	52	0	0	0	0.3	0	168	-0.09	0	0	20
3	6.2	47	6	1.90E-05	15	59	51	39	47	59	0	0	0	0.3	0	178	-0.11	0	0	20
3.2	7	57	6	2.10E-05	17	65	54	40	52	65	0	0	0	0.3	0	186	-0.12	0	0	20
3.4	8.3	67	6	3.00E-05	20	73	58	40	58	73	0	0	0	0.3	0	195	-0.14	0	0	20
3.6	6.9	37	6	3.70E-05	16	58	52	39	46	58	0	0	0	0.3	0	178	-0.1	0	0	20
3.8	5.9	30	6	2.60E-05	14	53	48	39	42	53	0	0	0	0.3	0	171	-0.09	0	0	20
4	5.7	50	6	9.90E-06	15	61	47	38	48	61	0	0	0	0.3	0	181	-0.1	0	0	20
4.2	4.7	57	5	3.50E-06	14	60	43	38	48	60	0	0	0	0.3	0	180	-0.09	0	0	20
4.4	4.9	53	5	4.40E-06	14	60	44	38	48	60	0	0	0	0.3	0	180	-0.09	0	0	20
4.6	4.7	53	5	3.60E-06	14	60	42	37	48	60	0	0	0	0.3	0	180	-0.09	0	0	20
4.8	9.1	20	6	1.90E-04	18	57	56	40	45	57	0	0	0	0.3	0	179	-0.11	0	0	20
5	8.8	80	6	2.10E-05	22	82	56	40	65	82	0	0	0	0.3	0	206	-0.13	0	0	20
5.2	7.2	90	6	7.00E-06	20	81	51	39	65	81	0	0	0	0.3	0	205	-0.13	0	0	20
5.4	12.9	70	6	1.20E-04	27	88	66	42	70	88	0	0	0	0.3	0	214	-0.16	0	0	20
5.6	20.7	80	6	6.40E-04	37	104	82	44	83	104	0	0	0	0.3	0	231	-0.22	0	0	20
5.8	19.9	75	6	5.90E-04	36	102	80	43	81	102	0	0	0	0.3	0	229	-0.22	0	0	20

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In situ data										Basic output data										
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ'vo (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	0.4	13	0	0	0.4	3.3	3	3.4	15.6	6.2	0	6.2	63.2	3.3	0	3	1	2	3.1	7.9
0.6	0.6	4	0	0	0.6	0.7	4	2.9	14.4	9.1	0	9.1	64.8	0.7	0	4	0.85	2	2.6	11.8
0.8	1.9	44	0	0	1.9	2.3	4	2.7	17.6	12.6	0	12.6	149.4	2.3	0	5	0.8	2	2.5	37.7
1	1.7	89	0	0	1.7	5.2	3	3	18.4	16.3	0	16.3	103.3	5.3	0	3	0.91	2	2.7	33.7
1.2	2.9	53	0	0	2.9	1.8	5	2.5	18	19.9	0	19.9	144.8	1.8	0	5	0.72	2	2.3	57.6
1.4	2.8	53	0	0	2.8	1.9	4	2.5	17.9	23.5	0	23.5	118.2	1.9	0	5	0.73	2	2.3	55.5
1.6	2.8	49	0	0	2.8	1.8	5	2.5	17.9	27.1	0	27.1	102.5	1.8	0	5	0.73	2	2.3	55.5
1.8	2.6	40	0	0	2.6	1.5	5	2.5	17.6	30.6	0	30.6	84	1.6	0	5	0.72	2	2.3	51.4
2	1.7	67	0	0	1.7	3.9	3	2.9	18	34.2	0	34.2	48.7	4	0	4	0.88	2	2.7	33.3
2.2	6.8	17	0	0	6.8	0.3	6	1.8	17	37.6	0	37.6	180	0.3	0	6	0.47	1.6	1.6	106.7
2.4	14.5	73	0	0	14.5	0.5	6	1.6	18.9	41.4	0	41.4	349.5	0.5	0	6	0.43	1.5	1.5	211.4
2.6	11.5	60	0	0	11.5	0.5	6	1.7	18.6	45.1	0	45.1	254	0.5	0	6	0.47	1.5	1.6	166.2
2.8	9.6	93	0	0	9.6	1	6	1.9	19.1	48.9	0	48.9	195.3	1	0	6	0.56	1.5	1.8	142.1
3	9.4	30	2	0	9.4	0.3	6	1.7	17.8	52.5	0.8	51.7	180.9	0.3	0	6	0.46	1.4	1.5	127.1
3.2	5.5	37	3.9	0	5.5	0.7	6	2	17.8	56	2.7	53.3	102.2	0.7	0	6	0.6	1.5	1.9	79.3
3.4	6.5	33	5.9	0	6.5	0.5	6	1.9	17.7	59.6	4.7	54.9	117.4	0.5	0	6	0.55	1.4	1.8	89.9
3.6	8.3	43	7.8	0	8.3	0.5	6	1.8	18.1	63.2	6.7	56.5	145.8	0.5	0	6	0.53	1.4	1.7	111.3
3.8	5.9	50	9.8	0	5.9	0.8	6	2.1	18.2	66.8	8.6	58.2	100.3	0.9	0	6	0.62	1.4	1.9	81.5
4	9.7	43	11.8	0	9.7	0.4	6	1.7	18.2	70.5	10.6	59.9	160.9	0.4	0	6	0.5	1.3	1.6	124.5
4.2	6.6	37	13.7	0	6.6	0.6	6	1.9	17.9	74	12.6	61.5	106.2	0.6	0	6	0.57	1.3	1.8	86.3
4.4	4.5	40	15.7	0	4.5	0.9	5	2.2	17.8	77.6	14.5	63.1	70.2	0.9	0	6	0.67	1.4	2.1	60.2
4.6	6.3	23	17.7	0	6.3	0.4	6	1.8	17.3	81.1	16.5	64.6	96.4	0.4	0	6	0.55	1.3	1.8	79.2
4.8	6.5	37	19.6	0	6.5	0.6	6	1.9	17.9	84.6	18.4	66.2	97	0.6	0	6	0.58	1.3	1.8	81.7
5	5.9	53	21.6	0	5.9	0.9	5	2.1	18.2	88.3	20.4	67.9	85.7	0.9	0	6	0.64	1.3	2	74.5
5.2	10.8	77	23.5	0	10.8	0.7	6	1.8	18.9	92.1	22.4	69.7	153.7	0.7	0	6	0.54	1.2	1.7	130.4
5.4	5.5	83	25.5	0	5.5	1.5	5	2.2	18.7	95.8	24.3	71.5	75.7	1.5	0	5	0.71	1.3	2.2	68.6
5.6	9	73	27.5	0	9	0.8	6	1.9	18.8	99.6	26.3	73.3	121.6	0.8	0	6	0.59	1.2	1.8	106.8
5.8	10.9	75	29.4	0	10.9	0.7	6	1.8	18.9	103.3	28.3	75.1	143.9	0.7	0	6	0.55	1.2	1.7	126.4

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	0.4	13	3	3.20E-09	2	3	0	0	0	18	14.1	28	0.6	0.3	2.7	107	0	0.9	2.1	20
0.6	0.6	4	4	9.90E-08	2	7	0	0	0	15	9.3	63	1.3	0.6	7.6	100	0	1.3	10.3	20
0.8	1.9	44	5	2.80E-07	7	26	33	35	31	39	0	0	0	0.3	0	147	-0.1	0	0	20
1	1.7	89	3	4.00E-08	7	24	0	0	0	49	15.6	108	2.2	0.4	14.8	162	0	1.7	1.3	20
1.2	2.9	53	5	1.20E-06	9	40	41	37	36	46	0	0	0	0.3	0	158	-0.11	0	0	20
1.4	2.8	53	5	1.00E-06	9	39	40	37	36	45	0	0	0	0.3	0	157	-0.11	0	0	20
1.6	2.8	49	5	1.20E-06	9	39	40	37	35	44	0	0	0	0.3	0	155	-0.1	0	0	20
1.8	2.6	40	5	1.20E-06	8	36	38	36	32	40	0	0	0	0.3	0	150	-0.09	0	0	20
2	1.7	67	4	6.90E-08	7	23	0	0	0	44	14.7	113	2.3	0.5	15.7	155	0	1.7	1.7	20
2.2	6.8	17	6	1.50E-04	14	44	55	40	35	44	0	0	0	0.3	0	160	-0.11	0	0	20
2.4	14.5	73	6	3.00E-04	28	84	78	43	67	84	0	0	0	0.3	0	208	-0.21	0	0	20
2.6	11.5	60	6	1.60E-04	23	75	69	42	60	75	0	0	0	0.3	0	198	-0.17	0	0	20
2.8	9.6	93	6	3.30E-05	23	83	64	41	66	83	0	0	0	0.3	0	206	-0.16	0	0	20
3	9.4	30	6	1.80E-04	19	60	60	41	48	60	0	0	0	0.3	0	182	-0.13	0	0	20
3.2	5.5	37	6	1.60E-05	14	54	48	38	43	54	0	0	0	0.3	0	172	-0.09	0	0	20
3.4	6.5	33	6	3.50E-05	15	55	51	39	44	55	0	0	0	0.3	0	175	-0.1	0	0	20
3.6	8.3	43	6	5.90E-05	18	64	56	40	51	64	0	0	0	0.3	0	186	-0.12	0	0	20
3.8	5.9	50	6	1.10E-05	15	61	48	39	49	61	0	0	0	0.3	0	182	-0.1	0	0	20
4	9.7	43	6	1.00E-04	21	68	60	41	54	68	0	0	0	0.3	0	192	-0.13	0	0	20
4.2	6.6	37	6	2.70E-05	16	59	50	39	47	59	0	0	0	0.3	0	179	-0.09	0	0	20
4.4	4.5	40	6	4.90E-06	13	54	41	37	43	54	0	0	0	0.3	0	173	-0.07	0	0	20
4.6	6.3	23	6	4.10E-05	15	52	48	38	41	52	0	0	0	0.3	0	171	-0.08	0	0	20
4.8	6.5	37	6	2.30E-05	16	59	48	39	47	59	0	0	0	0.3	0	181	-0.09	0	0	20
5	5.9	53	6	8.20E-06	16	65	46	38	52	65	0	0	0	0.3	0	187	-0.09	0	0	20
5.2	10.8	77	6	4.90E-05	24	86	61	41	69	86	0	0	0	0.3	0	212	-0.15	0	0	20
5.4	5.5	83	5	2.50E-06	16	75	44	38	60	75	0	0	0	0.3	0	198	-0.11	0	0	20
5.6	9	73	6	2.40E-05	22	82	55	40	65	82	0	0	0	0.3	0	207	-0.13	0	0	20
5.8	10.9	75	6	4.90E-05	25	87	60	41	70	87	0	0	0	0.3	0	213	-0.14	0	0	20

CPT 1/8

In situ data									Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ' _{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.3	31	0	0	1.3	2.4	4	2.9	17	6.8	0	6.8	189.7	2.4	0	4	0.85	2	2.6	25.9
0.6	1.2	58	0	0	1.2	4.8	3	3.1	17.7	10.4	0	10.4	114.8	4.9	0	3	0.93	2	2.8	23.8
0.8	1.7	36	0	0	1.7	2.1	4	2.7	17.3	13.8	0	13.8	122	2.1	0	5	0.8	2	2.5	33.7
1	3.6	76	0	0	3.6	2.1	5	2.5	18.5	17.5	0	17.5	204.5	2.1	0	5	0.71	2	2.2	71.6
1.2	2.6	40	0	0	2.6	1.5	5	2.5	17.6	21	0	21	122.6	1.6	0	5	0.72	2	2.3	51.6
1.4	1.6	27	0	0	1.6	1.7	4	2.7	17	24.4	0	24.4	64.5	1.7	0	5	0.8	2	2.4	31.5
1.6	1.1	31	0	0	1.1	2.8	3	3	17	27.8	0	27.8	38.5	2.9	0	4	0.9	2	2.7	21.4
1.8	0.7	9	0	0	0.7	1.3	4	2.9	15.4	30.9	0	30.9	21.7	1.3	0	4	0.9	2	2.7	13.4
2	0.8	22	2	0	0.8	2.7	3	3.1	16.5	34.2	2	32.2	23.8	2.9	0	4	0.95	2	2.8	15.3
2.2	1.4	22	3.9	0	1.4	1.6	4	2.7	16.7	37.5	3.9	33.6	40.6	1.6	0	5	0.81	2	2.5	27.3
2.4	2	36	5.9	0	2	1.8	4	2.6	17.4	41	5.9	35.1	55.8	1.8	0	5	0.78	2	2.4	39.2
2.6	2.5	44	7.8	0	2.5	1.8	4	2.5	17.7	44.5	7.8	36.7	67	1.8	0	5	0.75	2	2.3	49.1
2.8	2.7	49	9.8	0	2.7	1.8	4	2.5	17.8	48.1	9.8	38.3	69.3	1.8	0	5	0.74	2	2.3	53.1
3	4.2	120	11.8	0	4.2	2.9	4	2.5	19	51.9	11.8	40.1	103.4	2.9	0	5	0.74	2	2.3	81.8
3.2	7.1	76	13.7	0	7.1	1.1	6	2	18.7	55.7	13.7	41.9	168.1	1.1	0	6	0.59	1.7	1.9	117.3
3.4	7.1	133	15.7	0	7.1	1.9	5	2.2	19.4	59.5	15.7	43.8	160.7	1.9	0	5	0.65	1.7	2	120.4
3.6	6.5	98	17.7	0	6.5	1.5	5	2.2	19	63.3	17.7	45.7	141	1.5	0	6	0.64	1.7	2	106.3
3.8	14	129	19.6	0	14	0.9	6	1.8	19.6	67.2	19.6	47.6	292.6	0.9	0	6	0.51	1.5	1.7	202.9
4	8.5	111	21.6	0	8.5	1.3	5	2	19.2	71.1	21.6	49.5	170.3	1.3	0	6	0.6	1.5	1.9	128.7
4.2	9	84	23.5	0	9	0.9	6	1.9	18.9	74.9	23.5	51.3	174	0.9	0	6	0.56	1.5	1.8	130
4.4	12.9	84	25.5	0	12.9	0.7	6	1.7	19.1	78.7	25.5	53.2	241.2	0.7	0	6	0.49	1.4	1.6	174.6
4.6	7.1	89	27.5	0	7.1	1.3	5	2.1	18.9	82.5	27.5	55	127.7	1.3	0	6	0.63	1.5	2	102.2
4.8	8.3	138	29.4	0	8.3	1.7	5	2.1	19.5	86.4	29.4	56.9	144.4	1.7	0	6	0.64	1.4	2	118.2
5	7.7	107	31.4	0	7.7	1.4	5	2.1	19.1	90.2	31.4	58.8	129.5	1.4	0	6	0.64	1.4	2	106.8
5.2	8.4	151	33.4	0	8.4	1.8	5	2.1	19.6	94.1	33.4	60.8	136.8	1.8	0	5	0.66	1.4	2	115.4
5.4	7.6	102	35.3	0	7.6	1.3	5	2.1	19.1	97.9	35.3	62.6	119.9	1.4	0	6	0.64	1.3	2	101.4
5.6	9.8	107	37.3	0	9.8	1.1	6	1.9	19.2	101.8	37.3	64.5	150.5	1.1	0	6	0.59	1.3	1.9	125.8
5.8	10.7	49	39.2	0	10.7	0.5	6	1.7	18.4	105.4	39.2	66.2	160.1	0.5	0	6	0.5	1.2	1.6	130.3
6	12.9	53	41.2	0	12.9	0.4	6	1.6	18.5	109.2	41.2	68	188.3	0.4	0	6	0.47	1.2	1.5	153.4
6.2	9.8	67	43.2	0	9.8	0.7	6	1.8	18.7	112.9	43.2	69.7	139	0.7	0	6	0.55	1.2	1.8	118.3
6.4	7.6	218	45.1	0	7.6	2.9	5	2.3	20	116.9	45.1	71.8	104.4	2.9	0	5	0.74	1.3	2.2	95.9
6.6	7.5	240	47.1	0	7.5	3.2	5	2.4	20.1	120.9	47.1	73.8	100.1	3.2	0	5	0.76	1.3	2.3	93.1
6.8	8	293	49.1	0	8	3.7	4	2.4	20.3	125	49	75.9	103.9	3.7	0	5	0.77	1.2	2.3	97.6
7	10.6	418	51	0	10.6	3.9	9	2.3	20.8	129.1	51	78.1	134.2	4	0	8	0.76	1.2	2.3	126.4
7.2	10.4	102	53	0	10.4	1	6	1.9	19.2	133	53	80	128.5	1	0	6	0.6	1.1	1.9	117.4
7.4	17.7	147	55	0	17.7	0.8	6	1.7	19.8	136.9	54.9	82	214.3	0.8	0	6	0.52	1.1	1.6	194.7
7.6	12.6	102	56.9	0	12.6	0.8	6	1.8	19.3	140.8	56.9	83.9	148.6	0.8	0	6	0.56	1.1	1.7	137.5
7.8	15.1	100	58.9	0	15.1	0.7	6	1.7	19.3	144.7	58.9	85.8	174.4	0.7	0	6	0.52	1.1	1.6	162

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.3	31	4	1.10E-07	5	18	0	0	0	32	14	92	1.8	0.3	8.5	135	0	1.4	2.9	20
0.6	1.2	58	3	2.20E-08	6	17	0	0	0	39	14	85	1.7	0.3	7.9	146	0	1.3	1.4	20
0.8	1.7	36	5	2.50E-07	6	24	31	34	28	35	0	0	0	0.3	0	141	-0.09	0	0	20
1	3.6	76	5	1.40E-06	11	50	45	38	44	55	0	0	0	0.3	0	171	-0.13	0	0	20
1.2	2.6	40	5	1.30E-06	8	36	38	36	32	40	0	0	0	0.3	0	150	-0.09	0	0	20
1.4	1.6	27	5	3.20E-07	6	22	30	34	25	32	0	0	0	0.3	0	135	-0.07	0	0	20
1.6	1.1	31	4	4.80E-08	5	15	0	0	0	30	14	77	1.5	0.3	7.1	132	0	1.3	2.4	20
1.8	0.7	9	4	5.40E-08	3	9	0	0	0	18	14	48	1	0.3	4.4	109	0	1.1	5.2	20
2	0.8	22	4	2.20E-08	4	11	0	0	0	25	14	55	1.1	0.3	5.1	122	0	1.1	2.4	20
2.2	1.4	22	5	2.50E-07	5	19	28	33	23	29	0	0	0	0.3	0	130	-0.06	0	0	20
2.4	2	36	5	4.80E-07	7	27	33	35	29	37	0	0	0	0.3	0	144	-0.08	0	0	20
2.6	2.5	44	5	8.50E-07	8	34	37	36	33	41	0	0	0	0.3	0	151	-0.1	0	0	20
2.8	2.7	49	5	9.60E-07	9	37	39	37	35	44	0	0	0	0.3	0	155	-0.1	0	0	20
3	4.2	120	5	9.70E-07	14	58	48	39	54	68	0	0	0	0.3	0	187	-0.16	0	0	20
3.2	7.1	76	6	1.70E-05	18	68	58	40	55	68	0	0	0	0.3	0	189	-0.15	0	0	20
3.4	7.1	133	5	5.60E-06	20	84	59	40	67	84	0	0	0	0.3	0	206	-0.17	0	0	20
3.6	6.5	98	6	6.80E-06	18	74	55	40	59	74	0	0	0	0.3	0	196	-0.15	0	0	20
3.8	14	129	6	8.00E-05	30	103	76	43	82	103	0	0	0	0.3	0	227	-0.2	0	0	20
4	8.5	111	6	1.40E-05	22	85	61	41	68	85	0	0	0	0.3	0	208	-0.16	0	0	20
4.2	9	84	6	2.90E-05	21	79	61	41	63	79	0	0	0	0.3	0	203	-0.15	0	0	20
4.4	12.9	84	6	1.20E-04	27	88	71	42	70	88	0	0	0	0.3	0	213	-0.18	0	0	20
4.6	7.1	89	6	9.20E-06	19	77	54	40	61	77	0	0	0	0.3	0	199	-0.14	0	0	20
4.8	8.3	138	6	6.90E-06	23	94	58	40	75	94	0	0	0	0.3	0	218	-0.16	0	0	20
5	7.7	107	6	8.10E-06	21	85	55	40	68	85	0									

CPT 2/8																					
In situ data									Basic output data												
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn	
0.4	1.6	71	0	0	1.6	4.4	3	2.9	18.1	7.2	0	7.2	220.3	4.5	0	4	0.89	2	2.7	31.9	
0.6	1.8	147	0	0	1.8	8.2	3	3.1	19	11	0	11	162.3	8.2	0	3	0.95	2	2.9	35.8	
0.8	2	44	0	0	2	2.2	4	2.7	17.6	14.5	0	14.5	136.5	2.2	0	5	0.79	2	2.4	39.7	
1	2.7	93	0	0	2.7	3.4	4	2.7	18.6	18.3	0	18.3	146.9	3.5	0	4	0.8	2	2.5	53.6	
1.2	3	89	0	0	3	3	4	2.6	18.6	22	0	22	135.5	3	0	5	0.77	2	2.4	59.6	
1.4	3	84	0	0	3	2.8	4	2.6	18.5	25.7	0	25.7	115.9	2.8	0	5	0.77	2	2.4	59.5	
1.6	4.1	27	0	0	4.1	0.7	5	2.1	17.3	29.1	0	29.1	139.7	0.7	0	6	0.58	2	1.9	81.4	
1.8	4.6	67	0	0	4.6	1.5	5	2.3	18.4	32.8	0	32.8	139.2	1.5	0	5	0.65	2	2	91.3	
2	2.6	36	2	0	2.6	1.4	5	2.5	17.5	36.3	2	34.4	74.6	1.4	0	5	0.72	2	2.2	51.3	
2.2	1.9	22	3.9	0	1.9	1.2	5	2.5	16.8	39.7	3.9	35.7	52.1	1.2	0	5	0.74	2	2.3	37.2	
2.4	1.6	31	5.9	0	1.6	1.9	4	2.7	17.1	43.1	5.9	37.2	41.9	2	0	5	0.82	2	2.5	31.2	
2.6	1.6	27	7.8	0	1.6	1.7	4	2.7	17	46.5	7.8	38.6	40.2	1.7	0	5	0.81	2	2.5	31.1	
2.8	1.6	40	9.8	0	1.6	2.5	4	2.8	17.4	50	9.8	40.2	38.6	2.6	0	4	0.85	2	2.6	31	
3	1.8	27	11.8	0	1.8	1.5	4	2.6	17	53.4	11.8	41.6	42	1.5	0	5	0.78	2	2.4	34.7	
3.2	2	18	13.7	0	2	0.9	5	2.5	16.6	56.7	13.7	43	45.3	0.9	0	5	0.73	1.9	2.3	36	
3.4	1.8	13	15.7	0	1.8	0.7	5	2.5	16.2	59.9	15.7	44.2	39.4	0.7	0	5	0.73	1.8	2.3	31.6	
3.6	1.8	9	17.7	0	1.8	0.5	5	2.4	15.7	63.1	17.7	45.4	38.3	0.5	0	5	0.71	1.7	2.2	30.5	
3.8	1.7	18	19.6	0	1.7	1.1	4	2.6	16.5	66.4	19.6	46.8	35	1.1	0	5	0.77	1.8	2.4	29.5	
4	1.5	13	21.6	0	1.5	0.9	5	2.6	16.1	69.6	21.6	48	29.9	0.9	0	5	0.78	1.8	2.4	25.4	
4.2	1.5	9	23.5	0	1.5	0.6	5	2.5	15.7	72.7	23.5	49.2	29.1	0.6	0	5	0.76	1.7	2.3	24.5	
4.4	1.5	13	25.5	0	1.5	0.9	5	2.6	16.1	75.9	25.5	50.4	28.3	0.9	0	5	0.79	1.7	2.4	24.5	
4.6	1.3	9	27.5	0	1.3	0.7	5	2.6	15.6	79.1	27.5	51.6	23.8	0.7	0	5	0.79	1.7	2.4	20.7	
4.8	1.1	44	29.4	0	1.1	4	3	3	17.4	82.5	29.4	53.1	19.3	4.3	0	3	0.97	1.8	2.9	18.9	
5	4.7	89	31.4	0	4.7	1.9	5	2.3	18.7	86.3	31.4	54.9	84.2	1.9	0	5	0.72	1.5	2.2	71.1	
5.2	5.7	80	33.4	0	5.7	1.4	5	2.2	18.7	90	33.4	56.7	99.1	1.4	0	5	0.67	1.5	2.1	82.1	
5.4	11.9	27	35.3	0	11.9	0.2	6	1.5	17.7	93.6	35.3	58.3	202.8	0.2	0	6	0.42	1.3	1.4	148.3	
5.6	11.8	76	37.3	0	11.8	0.6	6	1.7	18.9	97.4	37.3	60.1	194.9	0.6	0	6	0.51	1.3	1.7	151.8	
5.8	7.7	89	39.2	0	7.7	1.2	6	2	18.9	101.1	39.2	61.9	122.9	1.2	0	6	0.62	1.3	1.9	102.5	
6	6	147	41.2	0	6	2.4	5	2.3	19.4	105	41.2	63.8	92.5	2.5	0	5	0.74	1.4	2.2	82.2	
6.2	7.4	151	43.2	0	7.4	2	5	2.2	19.5	108.9	43.2	65.8	111	2.1	0	5	0.7	1.3	2.1	97.7	
6.4	12.1	147	45.1	0	12.1	1.2	6	1.9	19.7	112.9	45.1	67.7	177.1	1.2	0	6	0.58	1.3	1.8	150.6	
6.6	15.5	187	47.1	0	15.5	1.2	6	1.8	20.1	116.9	47.1	69.8	220.5	1.2	0	6	0.56	1.2	1.8	188.2	
6.8	17.8	156	49.1	0	17.8	0.9	6	1.7	19.9	120.9	49	71.8	246.3	0.9	0	6	0.51	1.2	1.6	209.4	
7	19.6	929	51	0	19.6	4.7	9	2.2	21.6	125.2	51	74.2	262.7	4.8	0	9	0.72	1.2	2.2	241.7	
7.2	18.4	800	53	0	18.4	4.3	8	2.2	21.6	129.5	53	76.5	238.9	4.4	0	8	0.72	1.2	2.2	221.5	

In situ data					Estimations															
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.6	71	4	5.10E-08	7	22	0	0	0	45	14	114	2.3	0.3	10.5	155	0	1.5	1.6	20
0.6	1.8	147	3	1.70E-08	9	25	0	0	0	61	14	128	2.6	0.3	11.8	178	0	1.5	0.9	20
0.8	2	44	5	3.40E-07	7	28	34	35	31	39	0	0	0	0.3	0	148	-0.1	0	0	20
1	2.7	93	4	2.70E-07	10	38	0	0	44	55	14	192	3.8	0.3	17.7	171	0	1.8	2	20
1.2	3	89	5	4.60E-07	10	42	41	37	45	56	0	0	0	0.3	0	172	-0.15	0	0	20
1.4	3	84	5	5.20E-07	10	42	41	37	44	55	0	0	0	0.3	0	170	-0.14	0	0	20
1.6	4.1	27	6	1.80E-05	10	39	48	39	31	39	0	0	0	0.3	0	149	-0.09	0	0	20
1.8	4.6	67	5	5.30E-06	13	55	51	39	44	55	0	0	0	0.3	0	171	-0.13	0	0	20
2	2.6	36	5	1.50E-06	8	36	38	36	31	39	0	0	0	0.3	0	148	-0.08	0	0	20
2.2	1.9	22	5	9.30E-07	6	26	33	35	25	31	0	0	0	0.3	0	134	-0.05	0	0	20
2.4	1.6	31	5	2.40E-07	6	22	30	34	26	33	0	0	0	0.3	0	137	-0.08	0	0	20
2.6	1.6	27	5	3.00E-07	6	22	30	34	25	31	0	0	0	0.3	0	135	-0.07	0	0	20
2.8	1.6	40	4	1.40E-07	6	22	0	0	29	36	14	111	2.2	0.3	10.2	142	0	1.5	2.7	20
3	1.8	27	5	4.90E-07	6	24	31	35	26	32	0	0	0	0.3	0	137	-0.07	0	0	20
3.2	2	18	5	1.30E-06	6	27	32	35	24	30	0	0	0	0.3	0	134	-0.04	0	0	20
3.4	1.8	13	5	1.30E-06	6	24	30	34	22	27	0	0	0	0.3	0	128	-0.02	0	0	20
3.6	1.8	9	5	1.90E-06	6	25	29	34	20	25	0	0	0	0.3	0	125	0	0	0	20
3.8	1.7	18	5	5.80E-07	6	23	29	34	23	29	0	0	0	0.3	0	132	-0.04	0	0	20
4	1.5	13	5	5.30E-07	5	20	27	33	21	26	0	0	0	0.3	0	126	-0.02	0	0	20
4.2	1.5	9	5	8.10E-07	5	20	26	33	19	24	0	0	0	0.3	0	123	0	0	0	20
4.4	1.5	13	5	4.80E-07	5	20	26	33	21	27	0	0	0	0.3	0	127	-0.02	0	0	20
4.6	1.3	9	5	4.20E-07	5	17	24	32	19	23	0	0	0	0.3	0	121	0	0	0	20
4.8	1.1	44	3	1.70E-08	5	14	0	0	0	35	14	73	1.4	0.3	6.2	140	0	1.2	1.6	20
5	4.7	89	5	1.70E-06	15	65	45	38	54	68	0	0	0	0.3	0	189	-0.13	0	0	20
5.2	5.7	80	5	4.40E-06	16	70	48	39	56	70	0	0	0	0.3	0	192	-0.12	0	0	20
5.4	11.9	27	6	4.20E-04	22	64	65	41	51	64	0	0	0	0.3	0	189	-0.16	0	0	20
5.6	11.8	76	6	8.60E-05	25	85	66	42	68	85	0	0	0	0.3	0	210	-0.16	0	0	20
5.8	7.7	89	6	1.10E-05	20	81	54	40	64	81	0	0	0	0.3	0	204	-0.13	0		

CPT 3/8																						
In situ data										Basic output data												
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn		
0.4	2.6	89	0	0	2.6	3.4	4	2.7	18.5	7.4	0	7.4	350	3.4	0	4	0.8	2	2.5	51.9		
0.6	2.3	76	0	0	2.3	3.3	4	2.7	18.3	11.1	0	11.1	206.9	3.3	0	4	0.81	2	2.5	45.8		
0.8	1.7	67	0	0	1.7	3.9	3	2.9	18	14.7	0	14.7	114.9	4	0	4	0.87	2	2.7	33.7		
1	2.1	58	0	0	2.1	2.8	4	2.7	17.9	18.3	0	18.3	114	2.8	0	4	0.81	2	2.5	41.6		
1.2	2.9	58	2	0	2.9	2	4	2.5	18.1	21.9	2	19.9	144.6	2	0	5	0.73	2	2.3	57.6		
1.4	2	31	3.9	0	2	1.5	4	2.6	17.2	25.3	3.9	21.4	92.4	1.6	0	5	0.76	2	2.3	39.5		
1.6	1.7	71	5.9	0	1.7	4.2	3	2.9	18.1	28.9	5.9	23	72.6	4.2	0	4	0.88	2	2.7	33.4		
1.8	2	58	7.8	0	2	2.9	4	2.7	17.9	32.5	7.8	24.7	79.8	2.9	0	4	0.82	2	2.5	39.4		
2	5.1	84	9.8	0	5.1	1.6	5	2.3	18.7	36.3	9.8	26.4	191.5	1.7	0	5	0.65	2	2.1	101.3		
2.2	5.7	40	11.8	0	5.7	0.7	6	2	17.9	39.8	11.8	28.1	201.8	0.7	0	6	0.54	2	1.8	112.6		
2.4	2.6	53	13.7	0	2.6	2	4	2.6	17.9	43.4	13.7	29.7	86.2	2.1	0	5	0.76	2	2.3	51.2		
2.6	2.7	49	15.7	0	2.7	1.8	4	2.5	17.8	47	15.7	31.3	84.9	1.8	0	5	0.74	2	2.3	53.1		
2.8	2	36	17.7	0	2	1.8	4	2.6	17.4	50.5	17.7	32.8	59.5	1.8	0	5	0.78	2	2.4	39.1		
3	3.1	27	19.6	0	3.1	0.9	5	2.3	17.2	53.9	19.6	34.3	88.9	0.9	0	6	0.65	2	2	61		
3.2	2	40	21.6	0	2	2	4	2.7	17.5	57.4	21.6	35.8	54.3	2.1	0	5	0.79	2	2.4	38.9		
3.4	0.9	36	23.5	0	0.9	4	3	3.1	17.1	60.8	23.5	37.3	22.6	4.3	0	3	0.98	2	2.9	16.9		
3.6	7.1	142	25.5	0	7.1	2	5	2.2	19.4	64.7	25.5	39.2	179.6	2	0	5	0.65	1.8	2	129.1		
3.8	8.9	156	27.5	0	8.9	1.8	5	2.1	19.6	68.6	27.5	41.2	214.6	1.8	0	6	0.61	1.7	2	152.4		
4	10.8	173	29.4	0	10.8	1.6	5	2	19.8	72.6	29.4	43.2	248.6	1.6	0	6	0.59	1.6	1.9	175.9		
4.2	13	169	31.4	0	13	1.3	6	1.9	19.9	76.6	31.4	45.2	286.1	1.3	0	6	0.55	1.5	1.8	200		
4.4	11.8	236	33.4	0	11.8	2	5	2.1	20.2	80.6	33.4	47.3	248.1	2	0	6	0.61	1.6	1.9	185.6		
4.6	11.6	62	35.3	0	11.6	0.5	6	1.7	18.7	84.4	35.3	49	235	0.5	0	6	0.48	1.4	1.6	161.7		
4.8	9	160	37.3	0	9	1.8	5	2.1	19.7	88.3	37.3	51	174.8	1.8	0	6	0.63	1.5	2	136.6		
5	7.4	138	39.3	0	7.4	1.9	5	2.2	19.4	92.2	39.2	52.9	138.2	1.9	0	5	0.66	1.5	2.1	111.5		
5.2	8.8	124	41.2	0	8.8	1.4	5	2.1	19.4	96.1	41.2	54.8	158.8	1.4	0	6	0.62	1.4	1.9	126.1		
5.4	9.3	142	43.2	0	9.3	1.5	5	2.1	19.5	100	43.2	56.8	162.1	1.5	0	6	0.62	1.4	2	130.9		
5.6	12.3	124	45.1	0	12.3	1	6	1.8	19.5	103.9	45.1	58.7	207.8	1	0	6	0.55	1.3	1.8	163.4		
5.8	14.2	133	47.1	0	14.2	0.9	6	1.8	19.6	107.8	47.1	60.7	232.3	0.9	0	6	0.53	1.3	1.7	183.5		
6	13.6	387	49.1	0	13.6	2.8	5	2.1	20.8	112	49	62.9	214.6	2.9	0	8	0.67	1.4	2.1	184		
6.2	11	244	51	0	11	2.2	5	2.1	20.2	116	51	65	167.6	2.2	0	5	0.66	1.3	2	144.9		
6.4	11.6	258	53	0	11.6	2.2	5	2.1	20.3	120.1	53	67.1	171.3	2.2	0	5	0.66	1.3	2	149.5		
6.6	13.8	89	55	0	13.8	0.6	6	1.7	19.2	123.9	54.9	69	198.5	0.7	0	6	0.5	1.2	1.6	165		
6.8	8.4	93	56.9	0	8.4	1.1	6	2	19	127.7	56.9	70.8	117	1.1	0	6	0.62	1.2	1.9	102.7		
7	9.8	116	58.9	0	9.8	1.2	6	2	19.3	131.6	58.9	72.7	133.1	1.2	0	6	0.61	1.2	1.9	117.7		
7.2	11	178	60.8	0	11	1.6	5	2	19.9	135.5	60.8	74.7	145.6	1.6	0	6	0.64	1.2	2	131		
7.4	13.8	178	62.8	0	13.8	1.3	6	1.9	20	139.5	62.8	76.7	178.2	1.3	0	6	0.59	1.2	1.8	159.8		
7.6	16.1	124	64.8	0	16.1	0.8	6	1.7	19.6	143.4	64.7	78.7	202.9	0.8	0	6	0.52	1.1	1.6	180.7		
7.8	16.6	120	66.7	0	16.6	0.7	6	1.7	19.6	147.4	66.7	80.7	204.2	0.7	0	6	0.51	1.1	1.6	183.7		

In situ data										Estimations												
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (n/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)		
0.4	2.6	89	4	2.50E-07	10	36	0	0	43	54	14	185	3.7	0.3	17.1	169	0	1.7	2	20		
0.6	2.3	76	4	2.10E-07	9	32	0	0	40	50	14	163	3.3	0.3	15.1	163	0	1.7	2.1	20		
0.8	1.7	67	4	7.30E-08	7	24	0	0	0	44	14	120	2.4	0.3	11.1	155	0	1.5	1.8	20		
1	2.1	58	4	2.40E-07	8	29	0	0	35	44	14	149	3	0.3	13.7	155	0	1.6	2.5	20		
1.2	2.9	58	5	9.70E-07	9	40	41	37	38	47	0	0	0	0.3	0	160	-0.11	0	0	20		
1.4	2	31	5	6.50E-07	7	28	34	35	28	35	0	0	0	0.3	0	141	-0.07	0	0	20		
1.6	1.7	71	4	6.20E-08	7	23	0	0	0	45	14	119	2.4	0.3	11	156	0	1.5	1.6	20		
1.8	2	58	4	1.90E-07	8	28	0	0	35	43	14	141	2.8	0.3	13	154	0	1.6	2.4	20		
2	5.1	84	5	5.10E-06	14	61	54	40	49	61	0	0	0	0.3	0	179	-0.15	0	0	20		
2.2	5.7	40	6	3.60E-05	13	48	57	40	39	48	0	0	0	0.3	0	163	-0.13	0	0	20		
2.4	2.6	53	5	7.10E-07	9	36	38	36	35	44	0	0	0	0.3	0	156	-0.11	0	0	20		
2.6	2.7	49	5	9.70E-07	9	37	39	37	35	44	0	0	0	0.3	0	155	-0.1	0	0	20		
2.8	2	36	5	4.70E-07	7	27	33	35	29	36	0	0	0	0.3	0	143	-0.08	0	0	20		
3	3.1	27	6	5.30E-06	9	37	42	37	29	37	0	0	0	0.3	0	145	-0.07	0	0	20		
3.2	2	40	5	3.80E-07	7	27	33	35	30	38	0	0	0	0.3	0	146	-0.09	0	0	20		
3.4	0.9	36	3	1.30E-08	4	12	0	0	0	30	14	60	1.2	0.3	5.6	132	0	1.2	1.6	20		
3.6	7.1	142	5	5.50E-06	20	84	61	41	67	84	0	0	0	0.3	0	206	-0.18	0	0	20		
3.8	8.9	156	6	1.00E-05	23	94	66	42	75	94	0	0	0	0.3	0	217	-0.19	0	0	20		
4	10.8	173	6	1.70E-05	27	105	71	42	83	105	0	0	0	0.3	0	227	-0.2	0	0	20		
4.2	13	169	6	3.60E-05	30	110	76	43	88	110	0	0	0	0.3	0	233	-0.21	0	0	20		
4.4	11.8	236	6	1.10E-05	31	123	73	43	98	123	0	0	0	0.3	0	244	-0.22	0	0	20		
4.6	11.6	62	6	1.40E-04	24	77	68	42	61	77	0	0	0	0.3	0	201	-0.17	0	0	20		
4.8	9	160	6	8.10E-06	24	100	62	41	79	100	0	0	0	0.3	0	223	-0.18	0	0	20		
5	7.4	138	5	4.80E-06	21	90	56	40	72	90	0	0	0	0.3	0	213	-0.16	0	0	20		
5.2	8.8	124	6	1.10E-05	23	91	60	41	73	91	0	0	0	0.3	0	215	-0.16	0	0	20		
5.4	9.3	142	6	1.00E-05	24	98	61	41	78	98	0	0	0	0.3	0	222	-0.17	0	0	20		
5.6	12.3	124	6	4.10E-05	28	102	68	42	81	102	0	0	0	0.3	0	226	-0.18	0	0	20		
5.8	14.2	133	6	6.20E-05	32	109	72	42	87	109	0	0	0	0.3	0	233	-0.19	0	0	20		

CPT 4/8																					
In situ data										Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn	
0.4	1.8	89	0	0	1.8	4.9	3	2.9	18.4	7.4	0	7.4	243.9	5	0	4	0.89	2	2.7	35.9	
0.6	1.6	62	0	0	1.6	3.9	3	2.9	17.9	10.9	0	10.9	145.3	3.9	0	4	0.87	2	2.7	31.8	
0.8	1.5	58	0	0	1.5	3.9	3	2.9	17.8	14.5	0	14.5	102.5	3.9	0	4	0.88	2	2.7	29.7	
1	1.5	71	0	0	1.5	4.7	3	3	18	18.1	0	18.1	81.8	4.8	0	3	0.91	2	2.8	29.6	
1.2	1.7	71	0	0	1.7	4.2	3	2.9	18.1	21.7	0	21.7	77.3	4.2	0	4	0.88	2	2.7	33.6	
1.4	1.8	49	0	0	1.8	2.7	4	2.8	17.7	25.3	0	25.3	70.3	2.8	0	4	0.83	2	2.5	35.5	
1.6	1.6	22	0	0	1.6	1.4	4	2.6	16.7	28.6	0	28.6	54.9	1.4	0	5	0.78	2	2.4	31.4	
1.8	2.6	18	0	0	2.6	0.7	5	2.3	16.7	31.9	0	31.9	80.4	0.7	0	6	0.65	2	2.1	51.4	
2	3.3	93	0	0	3.3	2.8	4	2.6	18.7	35.7	0	35.7	91.5	2.8	0	5	0.76	2	2.4	65.3	
2.2	3.8	133	2	0	3.8	3.5	4	2.6	19.1	39.5	2	37.5	100.2	3.5	0	5	0.78	2	2.4	75.2	
2.4	4.7	53	3.9	0	4.7	1.1	5	2.2	18.1	43.1	3.9	39.2	118.8	1.1	0	6	0.63	1.8	2	84.2	
2.6	7.8	80	5.9	0	7.8	1	6	2	18.8	46.9	5.9	41	189.1	1	0	6	0.57	1.7	1.8	128.9	
2.8	8.6	76	7.8	0	8.6	0.9	6	1.9	18.8	50.7	7.8	42.8	199.8	0.9	0	6	0.55	1.6	1.8	136.1	
3	9.4	124	9.8	0	9.4	1.3	6	2	19.4	54.5	9.8	44.7	209	1.3	0	6	0.58	1.6	1.9	149.4	
3.2	8.4	40	11.8	0	8.4	0.5	6	1.8	18	58.1	11.8	46.4	180	0.5	0	6	0.5	1.5	1.6	122.6	
3.4	9.2	107	13.7	0	9.2	1.2	6	2	19.2	62	13.7	48.2	189.4	1.2	0	6	0.58	1.5	1.8	139.3	
3.6	5	58	15.7	0	5	1.2	5	2.2	18.3	65.6	15.7	49.9	98.9	1.2	0	6	0.65	1.6	2	77.6	
3.8	9	102	17.7	0	9	1.1	6	2	19.2	69.5	17.7	51.8	172.4	1.1	0	6	0.58	1.5	1.9	131.2	
4	6.2	107	19.6	0	6.2	1.7	5	2.2	19.1	73.3	19.6	53.7	114.2	1.7	0	5	0.67	1.5	2.1	93.3	
4.2	5.4	31	21.6	0	5.4	0.6	6	2	17.6	76.8	21.6	55.2	96.5	0.6	0	6	0.59	1.4	1.9	75.6	
4.4	6.6	89	23.5	0	6.6	1.3	5	2.1	18.9	80.6	23.5	57	114.4	1.4	0	6	0.65	1.4	2	93.9	
4.6	6.6	102	25.5	0	6.6	1.5	5	2.2	19	84.4	25.5	58.9	110.8	1.6	0	5	0.67	1.4	2.1	92.8	
4.8	5.4	182	27.5	0	5.4	3.4	4	2.5	19.6	88.3	27.5	60.8	87.4	3.4	0	5	0.78	1.5	2.4	78.3	
5	8.3	129	29.4	0	8.3	1.6	5	2.1	19.4	92.2	29.4	62.8	130.9	1.6	0	6	0.65	1.4	2	111	
5.2	8	133	31.4	0	8	1.7	5	2.1	19.4	96.1	31.4	64.7	122.3	1.7	0	5	0.66	1.3	2	105.5	
5.4	6.8	116	33.4	0	6.8	1.7	5	2.2	19.2	99.9	33.4	66.5	100.8	1.7	0	5	0.69	1.3	2.1	88.7	
5.6	7.2	138	35.3	0	7.2	1.9	5	2.2	19.4	103.8	35.3	68.5	103.7	1.9	0	5	0.7	1.3	2.1	92.5	
5.8	10.2	107	37.3	0	10.2	1	6	1.9	19.3	107.6	37.3	70.4	143.6	1.1	0	6	0.59	1.2	1.9	124.4	
6	8.5	138	39.3	0	8.5	1.6	5	2.1	19.5	111.5	39.2	72.3	116.1	1.6	0	5	0.66	1.2	2	104.2	
6.2	6.3	129	41.2	0	6.3	2	5	2.3	19.3	115.4	41.2	74.2	83.5	2.1	0	5	0.73	1.2	2.2	77	
6.4	6	253	43.2	0	6	4.2	4	2.5	20	119.4	43.2	76.2	77.3	4.3	0	4	0.82	1.2	2.5	73.6	
6.6	12	89	45.1	0	12	0.7	6	1.8	19.1	123.2	45.1	78.1	152.2	0.7	0	6	0.55	1.1	1.7	136.1	
6.8	16.5	93	47.1	0	16.5	0.6	6	1.6	19.3	127.1	47.1	80	204.8	0.6	0	6	0.48	1.1	1.6	182.4	
7	17	156	49.1	0	17	0.9	6	1.7	19.9	131	49	82	205.8	0.9	0	6	0.53	1.1	1.7	187.6	
7.2	13.9	93	51	0	13.9	0.7	6	1.7	19.2	134.9	51	83.9	164.2	0.7	0	6	0.53	1.1	1.7	151.1	
7.4	18.6	218	53	0	18.6	1.2	6	1.8	20.3	139	53	86	214.8	1.2	0	6	0.56	1.1	1.7	200.9	
7.6	17.2	89	55	0	17.2	0.5	6	1.6	19.2	142.8	54.9	87.9	194.3	0.5	0	6	0.48	1.1	1.5	181.6	
7.8	14.6	107	56.9	0	14.6	0.7	6	1.7	19.4	146.7	56.9	89.8	161.1	0.7	0	6	0.54	1.1	1.7	153.3	

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.8	89	4	5.20E-08	8	25	0	0	0	50	14	128	2.6	0.3	11.8	163	0	1.5	1.4	20
0.6	1.6	62	4	6.60E-08	7	22	0	0	0	42	14	114	2.3	0.3	10.5	152	0	1.5	1.8	20
0.8	1.5	58	4	5.70E-08	6	21	0	0	0	41	14	106	2.1	0.3	9.8	150	0	1.4	1.8	20
1	1.5	71	3	3.70E-08	7	21	0	0	0	44	14	106	2.1	0.3	9.8	154	0	1.4	1.5	20
1.2	1.7	71	4	6.30E-08	7	23	0	0	0	45	14	120	2.4	0.3	11.1	156	0	1.5	1.7	20
1.4	1.8	49	4	1.70E-07	7	25	0	0	32	40	14	127	2.5	0.3	11.7	149	0	1.5	2.5	20
1.6	1.6	22	5	4.50E-07	6	22	30	34	24	30	0	0	0	0.3	0	132	-0.05	0	0	20
1.8	2.6	18	6	5.00E-06	7	31	38	36	25	31	0	0	0	0.3	0	136	-0.05	0	0	20
2	3.3	93	5	6.20E-07	11	46	43	38	46	58	0	0	0	0.3	0	175	-0.15	0	0	20
2.2	3.8	133	5	5.20E-07	13	53	46	38	55	69	0	0	0	0.3	0	188	-0.17	0	0	20
2.4	4.7	53	6	7.30E-06	13	53	49	39	42	53	0	0	0	0.3	0	169	-0.11	0	0	20
2.6	7.8	80	6	2.30E-05	19	71	61	41	57	71	0	0	0	0.3	0	193	-0.15	0	0	20
2.8	8.6	76	6	3.60E-05	20	73	62	41	58	73	0	0	0	0.3	0	195	-0.16	0	0	20
3	9.4	124	6	1.90E-05	23	89	65	42	71	89	0	0	0	0.3	0	213	-0.18	0	0	20
3.2	8.4	40	6	8.70E-05	18	61	59	41	48	61	0	0	0	0.3	0	182	-0.13	0	0	20
3.4	9.2	107	6	2.20E-05	23	86	63	41	68	86	0	0	0	0.3	0	209	-0.17	0	0	20
3.6	5	58	6	5.60E-06	14	59	47	38	47	59	0	0	0	0.3	0	178	-0.11	0	0	20
3.8	9	102	6	2.00E-05	22	85	61	41	68	85	0	0	0	0.3	0	208	-0.16	0	0	20
4	6.2	107	5	3.80E-06	18	78	52	39	62	78	0	0	0	0.3	0	201	-0.14	0	0	20
4.2	5.4	31	6	1.80E-05	13	51	46	38	41	51	0	0	0	0.3	0	169	-0.08	0	0	20
4.4	6.6	89	6	6.50E-06	18	76	52	39	60	76	0	0	0	0.3	0	198	-0.13	0	0	20
4.6	6.6	102	5	4.80E-06	19	80	51	39	64	80	0	0	0	0.3	0	203	-0.14	0	0	20
4.8	5.4	182	5	6.10E-07	18	74	47	38	76	95	0	0	0	0.3	0	218	-0.17	0		

CPT 5/8																						
In situ data										Basic output data												
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn		
0.4	2.1	36	0	0	2.1	1.7	4	2.6	17.4	7	0	7	300.8	1.7	0	5	0.75	2	2.4	41.9		
0.6	1.7	44	0	0	1.7	2.6	4	2.8	17.5	10.5	0	10.5	161.4	2.6	0	4	0.82	2	2.5	33.8		
0.8	2.5	36	0	0	2.5	1.4	5	2.5	17.5	14	0	14	178.1	1.4	0	5	0.71	2	2.2	49.7		
1	2.7	44	0	0	2.7	1.6	5	2.5	17.7	17.5	0	17.5	153.3	1.6	0	5	0.72	2	2.3	53.6		
1.2	3.5	67	0	0	3.5	1.9	5	2.4	18.3	21.2	0	21.2	164.4	1.9	0	5	0.71	2	2.2	69.6		
1.4	2.1	31	0	0	2.1	1.5	4	2.6	17.2	24.6	0	24.6	84.3	1.5	0	5	0.75	2	2.3	41.5		
1.6	1.8	40	0	0	1.8	2.2	4	2.7	17.5	28.1	0	28.1	63.1	2.3	0	5	0.81	2	2.5	35.4		
1.8	2.5	18	0	0	2.5	0.7	5	2.3	16.7	31.4	0	31.4	78.5	0.7	0	5	0.66	2	2.1	49.4		
2	8.9	111	2	0	8.9	1.2	6	2	19.2	35.3	2	33.3	266.1	1.3	0	6	0.56	1.9	1.8	164.2		
2.2	6.2	18	3.9	0	6.2	0.3	6	1.8	17	38.7	3.9	34.8	177.3	0.3	0	6	0.48	1.7	1.6	102.4		
2.4	5.8	58	5.9	0	5.8	1	5	2.1	18.3	42.4	5.9	36.5	157.9	1	0	6	0.59	1.8	1.9	104.5		
2.6	1.4	107	7.8	0	1.4	7.6	3	3.1	18.5	46	7.8	38.2	35.5	7.9	0	3	0.99	2	2.9	27.1		
2.8	2.3	93	9.8	0	2.3	4	3	2.8	18.5	49.8	9.8	39.9	56.4	4.1	0	4	0.85	2	2.6	45		
3	2.4	49	11.8	0	2.4	2	4	2.6	17.8	53.3	11.8	41.5	56.5	2.1	0	5	0.77	2	2.4	46.4		
3.2	3.6	116	13.7	0	3.6	3.2	4	2.6	18.9	57.1	13.7	43.4	81.8	3.3	0	5	0.78	1.9	2.4	68.1		
3.4	2.9	58	15.7	0	2.9	2	4	2.5	18.1	60.7	15.7	45	63.1	2	0	5	0.76	1.8	2.3	52.1		
3.6	7.5	133	17.7	0	7.5	1.8	5	2.2	19.4	64.6	17.7	46.9	158.5	1.8	0	5	0.64	1.6	2	121.1		
3.8	6.3	93	19.6	0	6.3	1.5	5	2.2	18.9	68.4	19.6	48.8	127.9	1.5	0	5	0.65	1.6	2	99.2		
4	7.2	116	21.6	0	7.2	1.6	5	2.2	19.2	72.2	21.6	50.6	140.9	1.6	0	5	0.64	1.6	2	110.6		
4.2	4.3	98	23.5	0	4.3	2.3	5	2.4	18.8	76	23.5	52.4	80.6	2.3	0	5	0.74	1.6	2.3	68.3		
4.4	4.9	49	25.5	0	4.9	1	5	2.2	18.1	79.6	25.5	54.1	89.2	1	0	6	0.65	1.5	2	71.9		
4.6	8.4	116	27.5	0	8.4	1.4	5	2.1	19.3	83.5	27.5	56	148.7	1.4	0	6	0.62	1.4	2	119.3		
4.8	4.9	102	29.4	0	4.9	2.1	5	2.4	18.9	87.2	29.4	57.8	83.4	2.1	0	5	0.73	1.5	2.2	71.9		
5	7.2	80	31.4	0	7.2	1.1	5	2.1	18.8	91	31.4	59.6	119.4	1.1	0	6	0.62	1.4	1.9	98.2		
5.2	8.5	53	33.4	0	8.5	0.6	6	1.8	18.4	94.7	33.4	61.3	137.2	0.6	0	6	0.55	1.3	1.8	110		
5.4	8.1	71	35.3	0	8.1	0.9	6	2	18.7	98.4	35.3	63.1	126.9	0.9	0	6	0.59	1.3	1.9	105.1		
5.6	7.7	116	37.3	0	7.7	1.5	5	2.1	19.2	102.3	37.3	65	117	1.5	0	5	0.66	1.3	2	100.9		
5.8	6.6	156	39.3	0	6.6	2.4	5	2.3	19.5	106.2	39.2	66.9	97.2	2.4	0	5	0.73	1.3	2.2	87.1		
6	6.8	93	41.2	0	6.8	1.4	5	2.1	18.9	109.9	41.2	68.7	97.4	1.4	0	5	0.67	1.3	2.1	86		
6.2	10.4	249	43.2	0	10.4	2.4	5	2.2	20.2	114	43.2	70.8	145.3	2.4	0	5	0.69	1.3	2.1	130.4		
6.4	13.9	124	45.1	0	13.9	0.9	6	1.8	19.5	117.9	45.1	72.8	189.5	0.9	0	6	0.54	1.2	1.7	163.8		
6.6	18.6	71	47.1	0	18.6	0.4	6	1.4	19	121.7	47.1	74.6	247.8	0.4	0	6	0.42	1.1	1.4	209.2		
6.8	12.5	93	49.1	0	12.5	0.7	6	1.8	19.2	125.5	49	76.5	161.9	0.8	0	6	0.54	1.2	1.7	143.1		
7	11.8	49	51	0	11.8	0.4	6	1.6	18.4	129.2	51	78.2	149.4	0.4	0	6	0.5	1.1	1.6	131.9		
7.2	12.6	147	53	0	12.6	1.2	6	1.9	19.7	133.2	53	80.2	155.6	1.2	0	6	0.59	1.1	1.8	142.2		
7.4	12.4	84	55	0	12.4	0.7	6	1.7	19.1	137	54.9	82	149.6	0.7	0	6	0.54	1.1	1.7	136.6		
7.6	13.9	58	56.9	0	13.9	0.4	6	1.6	18.7	140.7	56.9	83.8	164.3	0.4	0	6	0.48	1.1	1.5	149.9		
7.8	13.6	60	58.9	0	13.6	0.4	6	1.6	18.7	144.4	58.9	85.6	157.4	0.4	0	6	0.49	1.1	1.6	145.4		

In situ data										Estimations											
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)	
0.4	2.1	36	5	6.30E-07	7.00E+00	29	35	35	30	37	0	0	0	0.3	0	145	-0.08	0	0	20	
0.6	1.7	44	4	1.70E-07	7.00E+00	24	0	0	30	38	14	121	2.4	0.3	11.2	145	0	1.5	2.7	20	
0.8	2.5	36	5	1.30E-06	8.00E+00	35	38	36	31	39	0	0	0	0.3	0	147	-0.08	0	0	20	
1	2.7	44	5	1.20E-06	9.00E+00	38	39	37	34	42	0	0	0	0.3	0	152	-0.1	0	0	20	
1.2	3.5	67	5	1.60E-06	1.10E+01	49	45	38	41	52	0	0	0	0.3	0	167	-0.12	0	0	20	
1.4	2.1	31	5	8.00E-07	7.00E+00	29	34	35	28	35	0	0	0	0.3	0	142	-0.07	0	0	20	
1.6	1.8	40	5	2.50E-07	7.00E+00	25	32	35	30	37	0	0	0	0.3	0	144	-0.09	0	0	20	
1.8	2.5	18	5	4.20E-06	7.00E+00	31	38	36	25	31	0	0	0	0.3	0	135	-0.05	0	0	20	
2	8.9	111	6	2.60E-05	2.10E+01	80	69	42	64	80	0	0	0	0.3	0	202	-0.19	0	0	20	
2.2	6.2	18	6	1.10E-04	1.30E+01	43	54	40	34	43	0	0	0	0.3	0	157	-0.1	0	0	20	
2.4	5.8	58	6	1.50E-05	1.50E+01	57	55	40	46	57	0	0	0	0.3	0	175	-0.13	0	0	20	
2.6	1.4	107	3	1.00E-08	7.00E+00	19	0	0	0	50	14	97	1.9	0.3	8.9	163	0	1.4	0.9	20	
2.8	2.3	93	4	1.30E-07	9.00E+00	32	0	0	43	53	14	161	3.2	0.3	14.9	168	0	1.7	1.7	20	
3	2.4	49	5	5.50E-07	8.00E+00	33	36	36	34	43	0	0	0	0.3	0	153	-0.1	0	0	20	
3.2	3.6	116	5	5.00E-07	1.20E+01	50	44	38	52	65	0	0	0	0.3	0	184	-0.16	0	0	20	
3.4	2.9	58	5	7.60E-07	1.00E+01	40	39	36	39	49	0	0	0	0.3	0	163	-0.11	0	0	20	
3.6	7.5	133	5	6.40E-06	2.10E+01	87	59	41	69	87	0	0	0	0.3	0	209	-0.17	0	0	20	
3.8	6.3	93	5	6.10E-06	1.70E+01	73	53	40	58	73	0	0	0	0.3	0	195	-0.14	0	0	20	
4	7.2	116	5	6.50E-06	2.00E+01	83	56	40	66	83	0	0	0	0.3	0	206	-0.16	0	0	20	
4.2	4.3	98	5	1.10E-06	1.40E+01	59	44	38	54	68	0	0	0	0.3	0	188	-0.14	0	0	20	
4.4	4.9	49	6	6.20E-06	1.30E+01	57	45	38	45	57	0	0	0	0.3	0	175	-0.09	0	0	20	
4.6	8.4	116	6	1.10E-05	2.20E+0																

CPT 6/8

In situ data									Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.8	36	0	0	1.8	2	4	2.7	17.3	6.9	0	6.9	258.6	2	0	5	0.79	2	2.4	35.9
0.6	1.3	44	0	0	1.3	3.4	3	2.9	17.4	10.4	0	10.4	123.7	3.4	0	4	0.89	2	2.7	25.8
0.8	1.2	89	2	0	1.2	7.4	3	3.2	18.2	14.1	2	12.1	98	7.5	0	3	0.98	2	3	23.7
1	2.2	58	3.9	0	2.2	2.6	4	2.7	18	17.7	3.9	13.7	158.9	2.7	0	5	0.79	2	2.5	43.7
1.2	2.3	44	5.9	0	2.3	1.9	4	2.6	17.7	21.2	5.9	15.3	149	1.9	0	5	0.75	2	2.4	45.6
1.4	2.8	67	7.8	0	2.8	2.4	4	2.6	18.2	24.8	7.8	17	163.5	2.4	0	5	0.76	2	2.4	55.5
1.6	2.2	76	9.8	0	2.2	3.5	4	2.8	18.3	28.5	9.8	18.7	116.4	3.5	0	4	0.83	2	2.5	43.5
1.8	2.8	89	11.8	0	2.8	3.2	4	2.7	18.5	32.2	11.8	20.4	135.6	3.2	0	4	0.79	2	2.4	55.4
2	2	40	13.7	0	2	2	4	2.7	17.5	35.7	13.7	22	89.6	2	0	5	0.78	2	2.4	39.3
2.2	2.6	58	15.7	0	2.6	2.2	4	2.6	18	39.3	15.7	23.6	108.6	2.3	0	5	0.76	2	2.4	51.3
2.4	2.7	49	17.7	0	2.7	1.8	4	2.5	17.8	42.9	17.7	25.2	105.5	1.8	0	5	0.74	2	2.3	53.2
2.6	5.5	89	19.6	0	5.5	1.6	5	2.2	18.8	46.6	19.6	27	202	1.6	0	5	0.64	2	2	109.1
2.8	7.7	160	21.6	0	7.7	2.1	5	2.2	19.6	50.6	21.6	29	264.2	2.1	0	5	0.63	2	2	153.1
3	7.9	169	23.5	0	7.9	2.1	5	2.2	19.7	54.5	23.5	30.9	253.7	2.2	0	5	0.63	2	2	157
3.2	7.9	40	25.5	0	7.9	0.5	6	1.8	18	58.1	25.5	32.6	240.8	0.5	0	6	0.49	1.7	1.6	135.3
3.4	10.7	129	27.5	0	10.7	1.2	6	1.9	19.5	62	27.5	34.5	308.3	1.2	0	6	0.54	1.8	1.8	189.1
3.6	7.5	209	29.4	0	7.5	2.8	5	2.3	19.9	66	29.4	36.5	203.6	2.8	0	5	0.68	2	2.1	146.8
3.8	12.4	160	31.4	0	12.4	1.3	6	1.9	19.8	69.9	31.4	38.5	320.1	1.3	0	6	0.54	1.7	1.8	206.6
4	9.2	93	33.4	0	9.2	1	6	1.9	19.1	73.7	33.4	40.4	226.1	1	0	6	0.55	1.6	1.8	150.3
4.2	10.7	133	35.3	0	10.7	1.2	6	2	19.5	77.6	35.3	42.3	251.1	1.3	0	6	0.56	1.6	1.8	171.8
4.4	9.7	133	37.3	0	9.7	1.4	6	2	19.5	81.5	37.3	44.3	217.4	1.4	0	6	0.58	1.6	1.9	154.9
4.6	16.1	133	39.3	0	16.1	0.8	6	1.7	19.7	85.5	39.2	46.2	346.5	0.8	0	6	0.48	1.4	1.6	231.6
4.8	17.9	227	41.2	0	17.9	1.3	6	1.8	20.3	89.5	41.2	48.3	368.6	1.3	0	6	0.52	1.5	1.7	259.9
5	18.9	236	43.2	0	18.9	1.2	6	1.8	20.4	93.6	43.2	50.5	372.8	1.3	0	6	0.52	1.4	1.7	267.7
5.2	18.9	249	45.1	0	18.9	1.3	6	1.8	20.5	97.7	45.1	52.6	357.7	1.3	0	6	0.53	1.4	1.7	263.6
5.4	17.9	267	47.1	0	17.9	1.5	6	1.9	20.5	101.8	47.1	54.7	325.3	1.5	0	6	0.55	1.4	1.8	247.9
5.6	17	160	49.1	0	17	0.9	6	1.7	19.9	105.8	49	56.8	297.8	0.9	0	6	0.5	1.3	1.6	224.7
5.8	12.5	342	51	0	12.5	2.7	5	2.2	20.7	109.9	51	58.9	210.4	2.8	0	5	0.67	1.4	2.1	176.3
6	15.6	76	53	0	15.6	0.5	6	1.6	19	113.7	53	60.8	255	0.5	0	6	0.45	1.3	1.5	193.8
6.2	22	111	55	0	22	0.5	6	1.5	19.6	117.7	54.9	62.7	349	0.5	0	6	0.41	1.2	1.4	265.5
6.4	19.9	240	56.9	0	19.9	1.2	6	1.8	20.4	121.8	56.9	64.9	305.1	1.2	0	6	0.53	1.3	1.7	248.5
6.6	11.2	44	58.9	0	11.2	0.4	6	1.6	18.3	125.4	58.9	66.5	166.6	0.4	0	6	0.48	1.2	1.6	134.9
6.8	18.7	187	60.8	0	18.7	1	6	1.7	20.1	129.4	60.8	68.6	270.9	1	0	6	0.52	1.2	1.7	225.6
7	19.5	178	62.8	0	19.5	0.9	6	1.7	20.1	133.4	62.8	70.7	274.2	0.9	0	6	0.5	1.2	1.6	230.7
7.2	28	173	64.8	0	28	0.6	6	1.4	20.2	137.5	64.7	72.7	383.2	0.6	0	6	0.42	1.1	1.4	318.6

In situ data					Estimations															
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.8	36	5	3.30E-07	6	25	32	35	29	36	0	0	0	0.3	0	142	-0.09	0	0	20
0.6	1.3	44	4	5.40E-08	6	18	0	0	0	36	14	92	1.8	0.3	8.5	142	0	1.4	2.1	20
0.8	1.2	89	3	8.80E-09	6	17	0	0	0	45	14	85	1.7	0.3	7.8	156	0	1.3	0.9	20
1	2.2	58	5	3.00E-07	8	31	35	36	35	44	0	0	0	0.3	0	156	-0.12	0	0	20
1.2	2.3	44	5	6.20E-07	8	32	36	36	32	40	0	0	0	0.3	0	150	-0.1	0	0	20
1.4	2.8	67	5	6.20E-07	10	39	40	37	39	49	0	0	0	0.3	0	163	-0.12	0	0	20
1.6	2.2	76	4	1.70E-07	8	30	0	0	39	49	14	155	3.1	0.3	14.3	162	0	1.6	2	20
1.8	2.8	89	4	3.40E-07	10	39	0	0	44	55	14	198	4	0.3	18.3	170	0	1.8	2.2	20
2	2	40	5	4.00E-07	7	28	34	35	30	38	0	0	0	0.3	0	146	-0.09	0	0	20
2.2	2.6	58	5	5.90E-07	9	36	38	36	37	46	0	0	0	0.3	0	158	-0.11	0	0	20
2.4	2.7	49	5	9.70E-07	9	37	39	37	35	44	0	0	0	0.3	0	155	-0.1	0	0	20
2.6	5.5	89	5	6.20E-06	15	64	56	40	51	64	0	0	0	0.3	0	182	-0.15	0	0	20
2.8	7.7	160	5	7.10E-06	21	87	66	42	70	87	0	0	0	0.3	0	209	-0.2	0	0	20
3	7.9	169	5	7.00E-06	21	90	67	42	72	90	0	0	0	0.3	0	212	-0.2	0	0	20
3.2	7.9	40	6	1.00E-04	17	56	62	41	44	56	0	0	0	0.3	0	174	-0.14	0	0	20
3.4	10.7	129	6	3.80E-05	25	90	74	43	72	90	0	0	0	0.3	0	213	-0.2	0	0	20
3.6	7.5	209	5	3.30E-06	22	98	65	41	78	98	0	0	0	0.3	0	220	-0.21	0	0	20
3.8	12.4	160	6	3.90E-05	29	104	77	43	83	104	0	0	0	0.3	0	227	-0.22	0	0	20
4	9.2	93	6	3.40E-05	22	79	66	42	63	79	0	0	0	0.3	0	201	-0.17	0	0	20
4.2	10.7	133	6	2.90E-05	25	94	70	42	75	94	0	0	0	0.3	0	217	-0.19	0	0	20
4.4	9.7	133	6	1.90E-05	24	92	67	42	74	92	0	0	0	0.3	0	216	-0.18	0	0	20
4.6	16.1	133	6	1.30E-04	33	108	81	44	86	108	0	0	0	0.3	0	232	-0.22	0	0	20
4.8	17.9	227	6	6.30E-05	40	137	86	44	109	137	0	0	0	0.3	0	257	-0.24	0	0	20
5	18.9	236	6	7.00E-05	41	142	87	44	113	142	0	0	0	0.3	0	262	-0.24	0	0	20
5.2	18.9	249	6	6.00E-05	42	146	87	44	117	146	0	0	0	0.3	0	265	-0.24	0	0	20
5.4	17.9	267	6	3.90E-05	41	149	84	44	119	149	0	0	0	0.3	0	267	-0.24	0	0	20
5.6	17	160	6	9.40E-05	36	121	80	43	973											

CPT 7/8																					
In situ data										Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn	
0.4	1.8	76	0	0	1.8	4.2	3	2.9	18.2	7.3	0	7.3	246.3	4.2	0	4	0.87	2	2.7	35.9	
0.6	1.3	80	0	0	1.3	6.2	3	3.1	18.1	10.9	0	10.9	118.2	6.2	0	3	0.95	2	2.9	25.8	
0.8	0.9	67	0	0	0.9	7.4	3	3.3	17.8	14.5	0	14.5	61.2	7.6	0	3	1	2	3.1	17.7	
1	2.5	62	0	0	2.5	2.5	4	2.6	18.1	18.1	0	18.1	137.3	2.5	0	5	0.77	2	2.4	49.6	
1.2	3.5	58	0	0	3.5	1.7	5	2.4	18.1	21.7	0	21.7	160.2	1.7	0	5	0.69	2	2.2	69.6	
1.4	3.4	58	0	0	3.4	1.7	5	2.4	18.1	25.3	0	25.3	133.2	1.7	0	5	0.7	2	2.2	67.5	
1.6	3.7	116	0	0	3.7	3.1	4	2.6	19	29.1	0	29.1	126	3.2	0	5	0.76	2	2.4	73.4	
1.8	2.4	98	0	0	2.4	4.1	3	2.8	18.6	32.8	0	32.8	72.1	4.1	0	4	0.84	2	2.6	47.3	
2	1.9	76	2	0	1.9	4	3	2.9	18.2	36.5	2	34.5	54	4.1	0	4	0.87	2	2.6	37.3	
2.2	3.5	27	3.9	0	3.5	0.8	5	2.2	17.3	39.9	3.9	36	96.1	0.8	0	6	0.63	1.9	2	65.7	
2.4	3.7	93	5.9	0	3.7	2.5	4	2.5	18.7	43.7	5.9	37.8	96.8	2.5	0	5	0.74	2	2.3	73.2	
2.6	7.7	142	7.8	0	7.7	1.8	5	2.2	19.5	47.6	7.8	39.7	192.7	1.9	0	6	0.63	1.8	2	137.1	
2.8	7.7	93	9.8	0	7.7	1.2	5	2.1	19	51.4	9.8	41.6	184.1	1.2	0	6	0.59	1.7	1.9	128.3	
3	8.9	218	11.8	0	8.9	2.4	5	2.2	20	55.4	11.8	43.6	202.9	2.5	0	5	0.66	1.7	2.1	152.7	
3.2	14.1	253	13.7	0	14.1	1.8	6	2	20.4	59.4	13.7	45.7	307.2	1.8	0	6	0.58	1.6	1.9	221.1	
3.4	16.4	218	15.7	0	16.4	1.3	6	1.8	20.3	63.5	15.7	47.8	341.8	1.3	0	6	0.53	1.5	1.7	242.1	
3.6	14.1	151	17.7	0	14.1	1.1	6	1.8	19.8	67.5	17.7	49.8	281.9	1.1	0	6	0.53	1.4	1.7	202.5	
3.8	9.8	147	19.6	0	9.8	1.5	5	2	19.6	71.4	19.6	51.8	188.1	1.5	0	6	0.61	1.5	1.9	145	
4	7.8	169	21.6	0	7.8	2.2	5	2.2	19.7	75.3	21.6	53.7	143.9	2.2	0	5	0.68	1.5	2.1	117.6	
4.2	9	147	23.5	0	9	1.6	5	2.1	19.6	79.2	23.5	55.7	160.3	1.6	0	6	0.63	1.4	2	129.2	
4.4	11.1	89	25.5	0	11.1	0.8	6	1.8	19.1	83	25.5	57.5	191.6	0.8	0	6	0.53	1.3	1.7	148.1	
4.6	11.6	156	27.5	0	11.6	1.3	6	2	19.7	87	27.5	59.5	193.5	1.4	0	6	0.59	1.4	1.9	156.3	
4.8	9.3	93	29.4	0	9.3	1	6	1.9	19.1	90.8	29.4	61.4	150.2	1	0	6	0.58	1.3	1.8	122.6	
5	8.4	120	31.4	0	8.4	1.4	5	2.1	19.3	94.7	31.4	63.3	131.4	1.4	0	6	0.64	1.3	2	111.3	
5.2	8.9	147	33.4	0	8.9	1.7	5	2.1	19.6	98.6	33.4	65.2	135.1	1.7	0	5	0.65	1.3	2	116.3	
5.4	7.7	98	35.3	0	7.7	1.3	5	2.1	19	102.4	35.3	67.1	113.4	1.3	0	6	0.64	1.3	2	98.2	
5.6	7.7	138	37.3	0	7.7	1.8	5	2.2	19.4	106.3	37.3	69	110.2	1.8	0	5	0.68	1.3	2.1	97.9	
5.8	9.7	129	39.3	0	9.7	1.3	6	2	19.4	110.2	39.2	70.9	135.3	1.3	0	6	0.62	1.2	1.9	119	
6	9.9	209	41.2	0	9.9	2.1	5	2.1	20	114.2	41.2	73	134.2	2.1	0	5	0.68	1.2	2.1	121.3	
6.2	11.9	182	43.2	0	11.9	1.5	6	2	19.9	118.1	43.2	75	157.2	1.5	0	6	0.62	1.2	1.9	141.1	
6.4	9	116	45.1	0	9	1.3	6	2	19.3	122	45.1	76.9	115.6	1.3	0	6	0.64	1.2	2	105.1	
6.6	10	182	47.1	0	10	1.8	5	2.1	19.9	126	47.1	78.9	125.3	1.8	0	5	0.67	1.2	2	115.8	
6.8	9.7	120	49.1	0	9.7	1.2	6	2	19.4	129.9	49	80.8	118.6	1.3	0	6	0.63	1.1	1.9	109.6	
7	11.2	164	51	0	11.2	1.5	6	2	19.8	133.8	51	82.8	133.8	1.5	0	6	0.64	1.1	2	124.9	
7.2	9.9	196	53	0	9.9	2	5	2.1	19.9	137.8	53	84.8	115.2	2	0	5	0.69	1.1	2.1	109.5	
7.4	13	116	55	0	13	0.9	6	1.8	19.4	141.7	54.9	86.7	148.4	0.9	0	6	0.57	1.1	1.8	139.5	
7.6	10.1	53	56.9	0	10.1	0.5	6	1.7	18.4	145.4	56.9	88.5	112.6	0.5	0	6	0.55	1.1	1.7	106.6	
7.8	12.8	53	58.9	0	12.8	0.4	6	1.6	18.5	149.1	58.9	90.2	140.4	0.4	0	6	0.5	1.1	1.6	133.3	

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (n/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.8	76	4	7.30E-08	7	25	0	0	0	47	14	128	2.6	0.3	11.8	159	0	1.5	1.7	20
0.6	1.3	80	3	1.60E-08	6	18	0	0	0	44	14	92	1.8	0.3	8.5	155	0	1.4	1.1	20
0.8	0.9	67	3	4.60E-09	5	12	0	0	0	38	14	63	1.3	0.3	5.8	145	0	1.2	0.9	20
1	2.5	62	5	4.50E-07	9	35	38	36	37	47	0	0	0	0.3	0	159	-0.12	0	0	20
1.2	3.5	58	5	2.20E-06	11	49	45	38	39	49	0	0	0	0.3	0	163	-0.12	0	0	20
1.4	3.4	58	5	1.90E-06	10	49	44	38	39	49	0	0	0	0.3	0	163	-0.12	0	0	20
1.6	3.7	116	5	6.30E-07	13	51	46	38	52	65	0	0	0	0.3	0	183	-0.16	0	0	20
1.8	2.4	98	4	1.40E-07	9	33	0	0	44	55	14	169	3.4	0.3	15.6	170	0	1.7	1.7	20
2	1.9	76	4	8.60E-08	8	26	0	0	0	47	14	133	2.7	0.3	12.3	160	0	1.6	1.7	20
2.2	3.5	27	6	7.90E-06	9	39	43	38	31	39	0	0	0	0.3	0	148	-0.08	0	0	20
2.4	3.7	93	5	1.00E-06	12	51	46	38	47	59	0	0	0	0.3	0	177	-0.15	0	0	20
2.6	7.7	142	6	7.50E-06	21	87	63	41	69	87	0	0	0	0.3	0	209	-0.18	0	0	20
2.8	7.7	93	6	1.70E-05	19	75	61	41	60	75	0	0	0	0.3	0	197	-0.16	0	0	20
3	8.9	218	5	4.80E-06	25	108	66	42	86	108	0	0	0	0.3	0	230	-0.21	0	0	20
3.2	14.1	253	6	2.00E-05	35	133	79	43	106	133	0	0	0	0.3	0	253	-0.23	0	0	20
3.4	16.4	218	6	5.00E-05	37	131	83	44	105	131	0	0	0	0.3	0	252	-0.23	0	0	20
3.6	14.1	151	6	5.70E-05	31	110	76	43	88	110	0	0	0	0.3	0	234	-0.21	0	0	20
3.8	9.8	147	6	1.30E-05	25	99	64	41	79	99	0	0	0	0.3	0	223	-0.18	0	0	20
4	7.8	169	5	3.80E-06	22	99	58	40	79	99	0	0	0	0.3	0	222	-0.18	0	0	20
4.2	9	147	6	8.70E-06	24	98	61	41	78	98	0	0	0	0.3	0	222	-0.17	0	0	20
4.4	11.1	89	6	5.30E-05	25	88	65	41	70	88	0	0	0	0.3	0	212	-0.16	0	0	20
4.6	11.6	156	6	2.00E-05	29	109	67	42	87	109	0	0	0	0.3	0	233	-0.18	0	0	20
4.8	9.3	93	6	2.20E-05	23	86	59	41	69	86	0	0	0							

CPT 8/8																						
In situ data									Basic output data													
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ _v (kPa)	u0 (kPa)	σ _v ' _{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn		
0.4	1.9	53	0	0	1.9	2.8	4	2.8	17.8	7.1	0	7.1	265.8	2.8	0	4	0.81	2	2.5	37.9		
0.6	1.7	49	0	0	1.7	2.9	4	2.8	17.7	10.7	0	10.7	158.6	2.9	0	4	0.83	2	2.6	33.8		
0.8	1	44	0	0	1	4.4	3	3.1	17.3	14.1	0	14.1	69.8	4.5	0	3	0.95	2	2.9	19.7		
1	1.6	98	0	0	1.6	6.1	3	3	18.4	17.8	0	17.8	88.8	6.2	0	3	0.93	2	2.8	31.6		
1.2	1	31	0	0	1	3.1	3	3	16.9	21.2	0	21.2	46.2	3.2	0	4	0.92	2	2.8	19.6		
1.4	2.1	13	0	0	2.1	0.6	5	2.4	16.2	24.4	0	24.4	84.9	0.6	0	5	0.67	2	2.1	41.5		
1.6	1.2	13	2	0	1.2	1.1	4	2.7	16	27.6	2	25.7	45.7	1.1	0	5	0.8	2	2.5	23.5		
1.8	0.5	22	3.9	0	0.5	4.4	3	3.3	16.3	30.9	3.9	27	17.4	4.7	0	3	1	2	3.1	9.4		
2	0.9	9	5.9	0	0.9	1	4	2.8	15.5	34	5.9	28.1	30.9	1	0	5	0.84	2	2.6	17.3		
2.2	3.1	84	7.8	0	3.1	2.7	4	2.6	18.5	37.7	7.8	29.9	102.6	2.7	0	5	0.76	2	2.4	61.3		
2.4	3.2	76	9.8	0	3.2	2.4	4	2.5	18.4	41.4	9.8	31.6	100.1	2.4	0	5	0.75	2	2.3	63.2		
2.6	4	36	11.8	0	4	0.9	5	2.2	17.6	44.9	11.8	33.1	119.4	0.9	0	6	0.62	2	2	78.2		
2.8	7	76	13.7	0	7	1.1	5	2.1	18.7	48.7	13.7	34.9	199.1	1.1	0	6	0.57	1.8	1.9	127.3		
3	6.6	71	15.7	0	6.6	1.1	5	2.1	18.6	52.4	15.7	36.7	178.6	1.1	0	6	0.58	1.8	1.9	117.7		
3.2	7.4	107	17.7	0	7.4	1.4	5	2.1	19.1	56.2	17.7	38.5	190.6	1.5	0	6	0.61	1.8	1.9	131		
3.4	6.8	111	19.6	0	6.8	1.6	5	2.2	19.1	60	19.6	40.4	166.9	1.6	0	6	0.63	1.8	2	119.6		
3.6	8.3	84	21.6	0	8.3	1	6	2	18.9	63.8	21.6	42.2	195.1	1	0	6	0.56	1.6	1.8	134		
3.8	6.1	89	23.5	0	6.1	1.5	5	2.2	18.8	67.6	23.5	44	137.1	1.5	0	6	0.64	1.7	2	102		
4	4.3	116	25.5	0	4.3	2.7	4	2.5	19	71.4	25.5	45.9	92.3	2.7	0	5	0.75	1.8	2.3	75.8		
4.2	5.4	178	27.5	0	5.4	3.3	4	2.5	19.6	75.3	27.5	47.8	111.4	3.3	0	5	0.75	1.7	2.3	92.7		
4.4	8.3	80	29.4	0	8.3	1	6	2	18.8	79.1	29.4	49.6	165.7	1	0	6	0.57	1.5	1.8	122.9		
4.6	12.2	147	31.4	0	12.2	1.2	6	1.9	19.7	83	31.4	51.6	234.9	1.2	0	6	0.56	1.4	1.8	175.3		
4.8	5.2	187	33.4	0	5.2	3.6	4	2.5	19.6	86.9	33.4	53.6	95.6	3.7	0	5	0.78	1.6	2.4	83.1		
5	7.8	133	35.3	0	7.8	1.7	5	2.1	19.4	90.8	35.3	55.5	139	1.7	0	5	0.65	1.5	2	113.2		
5.2	12.2	173	37.3	0	12.2	1.4	6	2	19.9	94.8	37.3	57.5	210.6	1.4	0	6	0.59	1.4	1.9	167.5		
5.4	13.2	31	39.3	0	13.2	0.2	6	1.5	17.9	98.4	39.2	59.1	221.7	0.2	0	6	0.41	1.2	1.4	162.6		
5.6	15.8	102	41.2	0	15.8	0.6	6	1.6	19.4	102.2	41.2	61	257.3	0.6	0	6	0.48	1.3	1.6	198.6		
5.8	16.5	111	43.2	0	16.5	0.7	6	1.6	19.5	106.1	43.2	63	260.4	0.7	0	6	0.48	1.2	1.6	204.5		
6	12.1	120	45.1	0	12.1	1	6	1.8	19.5	110	45.1	64.9	184.9	1	0	6	0.56	1.3	1.8	152.7		
6.2	10.5	93	47.1	0	10.5	0.9	6	1.9	19.1	113.9	47.1	66.8	155.7	0.9	0	6	0.57	1.3	1.8	130.6		
6.4	10.8	124	49.1	0	10.8	1.1	6	1.9	19.4	117.7	49	68.7	155.6	1.2	0	6	0.59	1.2	1.9	133.6		
6.6	11.4	129	51	0	11.4	1.1	6	1.9	19.5	121.6	51	70.6	159.8	1.1	0	6	0.59	1.2	1.8	138.5		
6.8	11.9	98	53	0	11.9	0.8	6	1.8	19.2	125.5	53	72.5	162.5	0.8	0	6	0.55	1.2	1.7	140.7		
7	13.6	133	55	0	13.6	1	6	1.8	19.6	129.4	54.9	74.5	181	1	0	6	0.56	1.2	1.8	158.8		
7.2	14.9	129	56.9	0	14.9	0.9	6	1.7	19.6	133.3	56.9	76.4	193.3	0.9	0	6	0.53	1.2	1.7	170.6		
7.4	13.5	22	58.9	0	13.5	0.2	6	1.4	17.5	136.8	58.9	78	171.5	0.2	0	6	0.41	1.1	1.4	148.1		
7.6	13.1	84	60.8	0	13.1	0.6	6	1.7	19.1	140.7	60.8	79.8	162.5	0.6	0	6	0.52	1.1	1.7	146		
7.8	12.2	80	61.8	0	12.2	0.7	6	1.7	19	144.5	62.8	81.7	147.8	0.7	0	6	0.54	1.1	1.7	134.6		

In situ data										Estimations												
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)		
0.4	1.9	53	4	1.90E-07	7	27	0	0	33	42	14	135	2.7	0.3	12.5	151	0	1.6	2.5	20		
0.6	1.7	49	4	1.40E-07	7	24	0	0	31	39	14	121	2.4	0.3	11.1	148	0	1.5	2.4	20		
0.8	1	44	3	1.70E-08	5	14	0	0	0	34	14	70	1.4	0.3	6.5	138	0	1.2	1.6	20		
1	1.6	98	3	2.50E-08	7	22	0	0	0	50	14	113	2.3	0.3	10.4	164	0	1.5	1.1	20		
1.2	1	31	4	3.30E-08	4	14	0	0	0	30	14	70	1.4	0.3	6.5	131	0	1.2	2.2	20		
1.4	2.1	13	5	3.40E-06	6	27	34	35	22	27	0	0	0	0.3	0	128	-0.03	0	0	20		
1.6	1.2	13	5	3.20E-07	4	16	26	33	19	24	0	0	0	0.3	0	120	-0.03	0	0	20		
1.8	0.5	22	3	2.70E-09	3	4	0	0	0	22	14	34	0.7	0.3	3.1	116	0	1	1.5	20		
2	0.9	9	5	1.60E-07	3	12	22	31	16	20	0	0	0	0.3	0	112	-0.01	0	0	20		
2.2	3.1	84	5	5.90E-07	11	43	42	37	44	55	0	0	0	0.3	0	171	-0.14	0	0	20		
2.4	3.2	76	5	8.30E-07	11	44	42	37	42	53	0	0	0	0.3	0	168	-0.13	0	0	20		
2.6	4	36	6	9.30E-06	11	43	47	38	34	43	0	0	0	0.3	0	155	-0.1	0	0	20		
2.8	7	76	6	2.00E-05	17	66	60	41	52	66	0	0	0	0.3	0	186	-0.15	0	0	20		
3	6.6	71	6	1.70E-05	16	64	58	40	51	64	0	0	0	0.3	0	183	-0.15	0	0	20		
3.2	7.4	107	6	1.20E-05	19	77	61	41	61	77	0	0	0	0.3	0	198	-0.17	0	0	20		
3.4	6.8	111	6	7.40E-06	18	76	58	40	61	76	0	0	0	0.3	0	198	-0.16	0	0	20		
3.6	8.3	84	6	2.60E-05	20	74	62	41	59	74	0	0	0	0.3	0	196	-0.16	0	0	20		
3.8	6.1	89	6	6.70E-06	17	70	54	40	56	70	0	0	0	0.3	0	191	-0.14	0	0	20		
4	4.3	116	5	9.30E-07	14	59	47	38	56	70	0	0	0	0.3	0	190	-0.16	0	0	20		
4.2	5.4	178	5	9.00E-07	18	75	51	39	71	89	0	0	0	0.3	0	210	-0.19	0	0	20		
4.4	8.3	80	6	2.40E-05	20	76	59	41	60	76	0	0	0	0.3	0	198	-0.15	0	0	20		
4.6	12.2	147	6	3.20E-05	29	105	71	42	84	105	0	0	0	0.3	0	229	-0.19	0	0	20		
4.8	5.2	187	5	5.90E-07	18	72	49	39	73	92	0	0	0	0.3	0	214	-0.18	0	0	20		
5	7.8	133	5	6.00E-06	21	91	57	40	73	91	0	0	0	0.3	0	214	-0.16	0	0	20		
5.2	12.2	173	6	2.10E-05	30	114	69	42	91	114	0	0	0	0.3	0	237	-0.19	0	0	20		
5.4	13.2	31	6	5.20E-04	24	69	68	42	55	69	0	0	0	0.3	0	194	-0.17	0	0	20		
5.6	15.8	102	6	1.60E-04	32	102	75	43	82	102	0	0	0									

CPT Tecnopali																					
In situ data									Basic output data												
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn	
0.4	2.4	67	0	0	2.4	2.8	4	2.7	18.2	7.3	0	7.3	329.4	2.8	0	5	0.79	2	2.4	47.9	
0.6	1.6	71	0	0	1.6	4.4	3	2.9	18.1	10.9	0	10.9	146.1	4.5	0	4	0.89	2	2.7	31.8	
0.8	3.2	71	0	0	3.2	2.2	4	2.5	18.3	14.5	0	14.5	219	2.2	0	5	0.73	2	2.3	63.7	
1	3.7	84	0	0	3.7	2.3	5	2.5	18.6	18.3	0	18.3	201.6	2.3	0	5	0.72	2	2.2	73.6	
1.2	3.3	71	0	0	3.3	2.2	4	2.5	18.3	21.9	0	21.9	149.5	2.2	0	5	0.73	2	2.3	65.6	
1.4	3.3	71	0	0	3.3	2.2	4	2.5	18.3	25.6	0	25.6	127.9	2.2	0	5	0.73	2	2.3	65.5	
1.6	3.4	80	0	0	3.4	2.4	4	2.5	18.5	29.3	0	29.3	115	2.4	0	5	0.74	2	2.3	67.4	
1.8	2.8	71	0	0	2.8	2.5	4	2.6	18.3	33	0	33	84	2.6	0	5	0.77	2	2.4	55.3	
2	2.1	58	0	0	2.1	2.8	4	2.7	17.9	36.5	0	36.5	56.5	2.8	0	4	0.82	2	2.5	41.3	
2.2	2.6	53	2	0	2.6	2	4	2.6	17.9	40.1	2	38.2	67.1	2.1	0	5	0.76	2	2.3	51.2	
2.4	2.6	40	3.9	0	2.6	1.5	5	2.5	17.6	43.7	3.9	39.7	64.4	1.6	0	5	0.73	2	2.3	50.3	
2.6	2.1	44	5.9	0	2.1	2.1	4	2.6	17.6	47.2	5.9	41.3	49.7	2.1	0	5	0.79	2	2.4	41.1	
2.8	1.5	31	7.8	0	1.5	2.1	4	2.8	17.1	50.6	7.8	42.7	33.9	2.1	0	4	0.84	2	2.5	29	
3	1.5	27	9.8	0	1.5	1.8	4	2.7	16.9	54	9.8	44.2	32.8	1.9	0	4	0.83	2	2.5	28.5	
3.2	1	18	11.8	0	1	1.8	4	2.9	16.3	57.2	11.8	45.5	20.8	1.9	0	4	0.89	2	2.7	18.9	
3.4	0.8	40	13.7	0	0.8	5	3	3.2	17.1	60.7	13.7	46.9	15.8	5.4	0	3	1	2	3	14.8	
3.6	1.2	58	15.7	0	1.2	4.8	3	3.1	17.7	64.2	15.7	48.5	23.5	5.1	0	3	0.96	2	2.9	22.8	
3.8	3.5	147	17.7	0	3.5	4.2	4	2.7	19.2	68.1	17.7	50.4	68.2	4.3	0	4	0.83	1.8	2.5	60.6	
4	3.2	187	19.6	0	3.2	5.8	3	2.8	19.5	72	19.6	52.3	59.8	6	0	3	0.88	1.8	2.6	55.5	
4.2	5.5	71	21.6	0	5.5	1.3	5	2.2	18.5	75.7	21.6	54.1	100.4	1.3	0	5	0.66	1.5	2.1	81.4	
4.4	3.6	133	23.5	0	3.6	3.7	4	2.6	19.1	79.5	23.5	55.9	63	3.8	0	4	0.82	1.6	2.5	56.9	
4.6	5.6	58	25.5	0	5.6	1	5	2.1	18.3	83.1	25.5	57.6	95.8	1.1	0	6	0.64	1.4	2	78.7	
4.8	6.8	111	27.5	0	6.8	1.6	5	2.2	19.1	87	27.5	59.5	112.9	1.7	0	5	0.67	1.4	2.1	95.1	
5	11.7	58	29.4	0	11.7	0.5	6	1.7	18.6	90.7	29.4	61.3	189.6	0.5	0	6	0.49	1.3	1.6	147.5	
5.2	10	120	31.4	0	10	1.2	6	2	19.4	94.6	31.4	63.2	156.9	1.2	0	6	0.6	1.3	1.9	130.4	
5.4	7.9	98	33.4	0	7.9	1.2	5	2.1	19.1	98.4	33.4	65	120.1	1.3	0	6	0.63	1.3	2	102.5	
5.6	8.7	84	35.3	0	8.7	1	6	2	18.9	102.2	35.3	66.8	128.7	1	0	6	0.6	1.3	1.9	109.4	
5.8	6.5	124	37.3	0	6.5	1.9	5	2.2	19.3	106	37.3	68.7	93.1	1.9	0	5	0.71	1.3	2.2	83.5	
6	4.4	58	39.3	0	4.4	1.3	5	2.3	18.2	109.7	39.2	70.4	61	1.3	0	5	0.72	1.3	2.2	55.3	
6.2	6.4	178	41.2	0	6.4	2.8	5	2.4	19.7	113.6	41.2	72.4	87	2.8	0	5	0.76	1.3	2.3	80.4	
6.4	10.9	218	43.2	0	10.9	2	5	2.1	20.1	117.6	43.2	74.4	144.9	2	0	5	0.66	1.2	2	131.3	
6.6	22.7	151	45.1	0	22.7	0.7	6	1.5	20	121.6	45.1	76.5	295.3	0.7	0	6	0.46	1.1	1.5	255.3	
6.8	12.3	111	47.1	0	12.3	0.9	6	1.8	19.4	125.5	47.1	78.4	155.4	0.9	0	6	0.56	1.1	1.8	139.8	
7	20	138	49.1	0	20	0.7	6	1.6	19.8	129.4	49	80.4	247.3	0.7	0	6	0.48	1.1	1.5	220.8	
7.2	16.9	58	51	0	16.9	0.3	6	1.5	18.7	133.2	51	82.2	204.2	0.3	0	6	0.43	1.1	1.4	182.7	
7.4	10	164	53	0	10	1.6	5	2.1	19.7	137.1	53	84.2	117.3	1.7	0	5	0.66	1.1	2	110.7	
7.6	1.3	53	55	0	1.3	4	3	3	17.7	140.7	54.9	85.7	13.7	4.5	0	3	1	1.2	3	13.7	
7.8	1.1	58	56.9	0	1.1	5.2	3	3.1	17.7	144.2	56.9	87.3	11.1	6	0	3	1	1.1	3.1	11.1	
8	1.1	80	58.9	0	1.1	7.2	3	3.2	18.1	147.8	58.9	89	10.8	8.3	0	3	1	1.1	3.2	10.8	
8.2	5.7	84	60.8	0	5.7	1.5	5	2.2	18.8	151.6	60.8	90.7	61.3	1.5	0	5	0.73	1.1	2.2	59.7	
8.4	8	151	62.8	0	8	1.9	5	2.2	19.6	155.5	62.8	92.7	84.8	1.9	0	5	0.72	1.1	2.2	83	
8.6	6.2	124	64.8	0	6.2	2	5	2.3	19.2	159.3	64.7	94.6	64	2	0	5	0.76	1	2.3	63.2	
8.8	4.8	178	66.7	0	4.8	3.7	4	2.5	19.6	163.2	66.7	96.5	48.2	3.8	0	4	0.87	1	2.5	47.9	
9	2.6	98	68.7	0	2.6	3.7	4	2.7	18.6	167	68.7	98.3	24.9	4	0	4	0.95	1	2.8	24.9	
9.2	5.2	80	70.7	0	5.2	1.5	5	2.3	18.7	170.7	70.6	100.1	50.4	1.6	0	5	0.76	1	2.3	50.4	
9.4	6.1	98	72.6	0	6.1	1.6	5	2.2	19	174.5	72.6	101.9	58.3	1.6	0	5	0.75	1	2.2	58.6	
9.6	9.5	107	74.6	0	9.5	1.1	6	2	19.2	178.3	74.6	103.8	90	1.1	0	6	0.66	1	2	91.1	
9.8	8.2	40	76.5	0	8.2	0.5	6	1.8	18	181.9	76.5	105.4	76.2	0.5	0	6	0.6	1	1.8	77.8	
10	3.4	67	78.5	0	3.4	2	5	2.5	18.3	185.6	78.5	107.1	30.2	2.1	0	4	0.86	0.9	2.5	30.4	

In situ data					Estimations															
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	2.4	67	5	3.30E-07	9	33	37	36	38	48	0	0	0	0.3	0	161	-0.13	0	0	20
0.6	1.6	71	4	5.00E-08	7	22	0	0	0	45	14	114	2.3	0.3	10.5	155	0	1.5	1.6	20
0.8	3.2	71	5	9.90E-07	10	45	43	37	41	52	0	0	0	0.3	0	167	-0.13	0	0	20
1	3.7	84	5	1.30E-06	12	52	46	38	46	57	0	0	0	0.3	0	174	-0.14	0	0	20
1.2	3.3	71	5	1.10E-06	11	46	43	38	42	52	0	0	0	0.3	0	167	-0.13	0	0	20
1.4	3.3	71	5	1.10E-06	11	46	43	38	42	52	0	0	0	0.3	0	167	-0.13	0	0	20
1.6	3.4	80	5	9.90E-07	11	47	44	38	44	55	0	0	0	0.3	0	171	-0.14	0	0	20
1.8	2.8	71	5	5.40E-07	10	39	40	37	40	50	0	0	0	0.3	0	164	-0.13	0	0	20
2	2.1	58	4	2.30E-07	8	29	0	0	35	44	14	147	2.9	0.3	13.6	155	0	1.6	2.5	20
2.2	2.6	53	5	7.10E-07	9	36	38	36	35	44	0	0	0	0.3	0	156	-0.11	0	0	20
2.4	2.6	40	5	1.20E-06	8	36	38	36	32	40	0	0	0	0.3	0	150	-0.09	0	0	20
2.6	2.1	44	5	4.00E-07	7	29	34	35	32	40	0	0	0	0.3	0	148	-0.1	0	0	20
2.8	1.5	31	4	1.70E-07	6	20	0	0	26	32	14	104	2.1	0.3	9.6	136	0	1.4	3.3	20
3	1.5	27	4	2.10E-07	6	20	0	0	25	31	14	103	2	0.3	9.4	134	0	1.4	3.8	20
3.2	1	18	4	7.50E-08	4	13	0	0	0	25	14	68	1.4	0.3	6.2	122	0	1.2	3.7	20
3.4	0.8	40	3	6.10E-09	4	10	0	0	0	30	14	53	1.1	0.3	4.9	132	0	1.1	1.3	20
3.6	1.2	58	3	1.80E-08	6	16	0	0	0	38	14	81	1.6	0.3	7.5	146	0	1.3	1.4	20
3.8	3.5	147	4	2.20E-07	13	48	0	0	59	74	14	245	4.3	0.3	20	194	0	1.8	1.6	20
4	3.2	187	3	8.50E-08	13	44	0	0	80	14	224	4	0.3	18.3	200	0	1.8	1.2	20	
4.2	5.5	71	5	5.10E-06	15	66	48	39	53	66	0	0	0	0.3	0	187	-0.12	0	0	20
4.4	3.6	133	4	2.50E-07	13	49	0	0	59	74	14	252	4.1	0.3	18.8	195	0	1.8	1.9	20
4.6	5.6	58	6	7.20E-06	15	63	47	38	50	63	0	0	0	0.3	0	184	-0.1	0	0	20
4.8	6.8	111	5	4.50E-06	19	83	52	39	67	83	0	0	0	0.3	0	207	-0.14	0	0	20
5	11.7	58	6	1.30E-04	24	79	65	41	63	79	0	0	0	0.3	0	204	-0.16	0	0	20
5.2	10	120	6	1.70E-05	25	96	61	41	77	96	0	0	0	0.3	0	221	-0.16	0	0	20
5.4	7.9	98	6	9.40E-06	21	85	54	40	68	85	0	0	0	0.3	0	209	-0.14	0	0	20
5.6	8.7	84	6	1.80E-05	22	83	56	40	66	83	0	0	0	0.3	0	208	-0.13	0	0	20
5.8	6.5	124	5	2.40E-06	19	89	49	39	71	89	0	0	0	0.3	0	213	-0.14	0	0	20
6	4.4	58	5	1.90E-06	13	62	40	37	50	62	0	0	0	0.3	0	183	-0.09	0	0	20
6.2	6.4	178	5	9.80E-07	21	88	48	39	82	103	0	0	0	0.3	0	227	-0.16	0	0	20
6.4	10.9	218	5	5.70E-06	30	128	61	41	102	128	0	0	0	0.3	0	250	-0.18	0	0	20
6.6	22.7	151	6	2.60E-04	44	134	85	44	107	134	0	0	0	0.3	0	257	-0.23	0	0	20
6.8	12.3	111	6	3.60E-05	29	104	63	41	83	104	0	0	0	0.3	0	229	-0.16	0	0	20
7	20	138	6	1.80E-04	40	127	79	43	101	127	0	0	0	0.3	0	251	-0.21	0	0	20
7.2	16.9	58	6	4.10E-04	31	92	72	42	73	92	0	0	0	0.3	0	219	-0.19	0	0	20
7.4	10	164	5	6.20E-06	27	116	56	40	92	116	0	0	0	0.3	0	240	-0.16	0	0	20
7.6	1.3	53	3	7.00E-09	7	16	0	0	0	47	14	84	1	0.3	4.5	161	0	1.1	1.5	20
7.8	1.1	58	3	2.50E-09	6	11	0	0	0	47	14	69	0.8	0.3	3.7	161	0	1	1.2	20
8	1.1	80	3	1.30E-09	7	10	0	0	0	53	14	69	0.8	0.3	3.6	169	0	1	0.8	20
8.2	5.7	84	5	1.90E-06	18	81	41	37	65	81	0	0	0	0.3	0	206	-0.1	0	0	20
8.4	8	151	5	2.40E-06	24	109	49	39	87	109	0	0	0	0.3	0	234	-0.14	0	0	20
8.6	6.2	124	5	1.20E-06	20	85	42	37	77	96	0	0	0	0.3	0	221	-0.12	0	0	20
8.8	4.8	178	4	1.70E-07	18	65	0	0	83	104	14	332	3.4	0.3	15.8	229	0	1.7	1.8	20
9	2.6	98	4	3.60E-08	12	34	0	0	0	73	14	175	1.8	0.3	8.2	196	0	1.4	1.7	20
9.2	5.2	80	5	1.20E-06	17	71	38	36	64	80	0	0	0	0.3	0	205	-0.09	0	0	20
9.4	6.1	98	5	1.50E-06	19	83	41	37	72	90	0	0	0	0.3	0	216	-0.1	0	0	20
9.6	9.5	107	6	8.60E-06	25	103	51	39	82	103	0	0	0	0.3	0	229	-0.12	0	0	20
9.8	8.2	40	6	2.50E-05	20	73	47	38	58	73	0	0	0	0.3	0	199	-0.08	0	0	20
10	3.4	67	4	2.10E-07	13	45	0	0	56	70	14	231	2.2	0.3	10	194	0	1.4	3.4	20

CPT GTA 1/2

In situ data									Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	7.7	151	0	0	7.7	2	5	2.2	19.5	7.8	0	7.8	984.1	2	0	6	0.61	2	2	153.8
0.6	7.3	169	0	0	7.3	2.3	5	2.3	19.7	11.7	0	11.7	620.4	2.3	0	5	0.64	2	2.1	145.8
0.8	5.7	138	0	0	5.7	2.4	5	2.4	19.3	15.6	0	15.6	364.1	2.4	0	5	0.67	2	2.1	113.7
1	4.9	76	0	0	4.9	1.6	5	2.3	18.6	19.3	0	19.3	252.5	1.6	0	5	0.64	2	2	97.6
1.2	3.4	62	0	0	3.4	1.8	5	2.4	18.2	23	0	23	147	1.8	0	5	0.7	2	2.2	67.5
1.4	2.3	22	0	0	2.3	1	5	2.4	16.9	26.3	0	26.3	86.3	1	0	5	0.69	2	2.2	45.5
1.6	1.9	27	2	0	1.9	1.4	4	2.6	17	29.7	2	27.8	67.3	1.4	0	5	0.76	2	2.3	37.4
1.8	1.1	13	3.9	0	1.1	1.2	4	2.8	16	32.9	3.9	29	36.8	1.2	0	5	0.82	2	2.5	21.4
2	0.9	49	5.9	0	0.9	5.4	3	3.2	17.4	36.4	5.9	30.5	28.3	5.7	0	3	1	2	3	17.3
2.2	2.7	49	7.8	0	2.7	1.8	4	2.5	17.8	40	7.8	32.1	82.8	1.8	0	5	0.74	2	2.3	53.2
2.4	4.9	49	9.8	0	4.9	1	5	2.2	18.1	43.6	9.8	33.8	143.7	1	0	6	0.6	1.9	1.9	93.6
2.6	6.3	53	11.8	0	6.3	0.8	6	2	18.3	47.3	11.8	35.5	176.2	0.8	0	6	0.56	1.8	1.8	112.1
2.8	4.7	49	13.7	0	4.7	1	5	2.2	18.1	50.9	13.7	37.1	125.3	1.1	0	6	0.62	1.8	2	86
3	5	36	15.7	0	5	0.7	5	2.1	17.7	54.4	15.7	38.7	127.8	0.7	0	6	0.58	1.7	1.9	86.2
3.2	6.2	40	17.7	0	6.2	0.6	6	2	17.9	58	17.7	40.3	152.3	0.7	0	6	0.55	1.7	1.8	101.5
3.4	5.2	98	19.6	0	5.2	1.9	5	2.3	18.9	61.8	19.6	42.2	122	1.9	0	5	0.68	1.8	2.1	92.5
3.6	7.1	98	21.6	0	7.1	1.4	5	2.1	19	65.6	21.6	44	160	1.4	0	6	0.62	1.7	2	116.8
3.8	8.8	40	23.5	0	8.8	0.5	6	1.8	18.1	69.2	23.5	45.7	191.3	0.5	0	6	0.49	1.5	1.6	128.3
4	7.4	84	25.5	0	7.4	1.1	5	2.1	18.9	73	25.5	47.5	154.5	1.1	0	6	0.6	1.6	1.9	114.6
4.2	5.9	71	27.5	0	5.9	1.2	5	2.1	18.6	76.7	27.5	49.2	118.4	1.2	0	6	0.63	1.6	2	91.4
4.4	5.1	129	29.4	0	5.1	2.5	5	2.4	19.2	80.5	29.4	51.1	98.4	2.6	0	5	0.73	1.6	2.3	82.2
4.6	8.2	120	31.4	0	8.2	1.5	5	2.1	19.3	84.4	31.4	53	153.3	1.5	0	6	0.62	1.5	2	120.8
4.8	13.4	40	33.4	0	13.4	0.3	6	1.5	18.2	88	33.4	54.7	243.6	0.3	0	6	0.42	1.3	1.4	171.4
5	11.5	111	35.3	0	11.5	1	6	1.9	19.3	91.9	35.3	56.6	201.7	1	0	6	0.55	1.4	1.8	155.9
5.2	15.9	124	37.3	0	15.9	0.8	6	1.7	19.6	95.8	37.3	58.5	270.1	0.8	0	6	0.49	1.3	1.6	205.7
5.4	10.9	151	39.3	0	10.9	1.4	6	2	19.7	99.8	39.2	60.5	178.6	1.4	0	6	0.6	1.4	1.9	146.1
5.6	18.7	218	41.2	0	18.7	1.2	6	1.8	20.3	103.8	41.2	62.6	297.1	1.2	0	6	0.53	1.3	1.7	237.9
5.8	22.9	200	43.2	0	22.9	0.9	6	1.6	20.3	107.9	43.2	64.7	352.4	0.9	0	6	0.47	1.2	1.5	280.1

In situ data						Estimations														
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	7.7	151	6	8.30E-06	21	85	66	42	68	85	0	0	0	0.3	0	207	-0.2	0	0	20
0.6	7.3	169	5	5.10E-06	20	88	65	41	71	88	0	0	0	0.3	0	210	-0.2	0	0	20
0.8	5.7	138	5	2.80E-06	17	77	57	40	61	77	0	0	0	0.3	0	197	-0.18	0	0	20
1	4.9	76	5	5.40E-06	14	59	53	39	47	59	0	0	0	0.3	0	176	-0.14	0	0	20
1.2	3.4	62	5	1.70E-06	11	47	44	38	40	50	0	0	0	0.3	0	164	-0.12	0	0	20
1.4	2.3	22	5	2.20E-06	7	32	36	36	26	32	0	0	0	0.3	0	137	-0.06	0	0	20
1.6	1.9	27	5	6.60E-07	6	26	33	35	26	33	0	0	0	0.3	0	138	-0.07	0	0	20
1.8	1.1	13	5	2.10E-07	4	15	25	32	18	23	0	0	0	0.3	0	119	-0.03	0	0	20
2	0.9	49	3	7.90E-09	5	12	0	0	0	34	14	62	1.2	0.3	5.7	138	0	1.2	1.2	20
2.2	2.7	49	5	9.70E-07	9	37	39	37	35	44	0	0	0	0.3	0	155	-0.1	0	0	20
2.4	4.9	49	6	1.20E-05	13	51	52	39	40	51	0	0	0	0.3	0	166	-0.12	0	0	20
2.6	6.3	53	6	2.50E-05	15	57	57	40	45	57	0	0	0	0.3	0	175	-0.13	0	0	20
2.8	4.7	49	6	8.90E-06	12	51	50	39	41	51	0	0	0	0.3	0	167	-0.11	0	0	20
3	5	36	6	1.70E-05	12	48	50	39	38	48	0	0	0	0.3	0	163	-0.1	0	0	20
3.2	6.2	40	6	3.20E-05	15	53	54	40	43	53	0	0	0	0.3	0	171	-0.12	0	0	20
3.4	5.2	98	5	3.10E-06	15	68	51	39	54	68	0	0	0	0.3	0	188	-0.15	0	0	20
3.6	7.1	98	6	1.00E-05	19	75	58	40	60	75	0	0	0	0.3	0	197	-0.15	0	0	20
3.8	8.8	40	6	1.10E-04	19	61	61	41	49	61	0	0	0	0.3	0	182	-0.14	0	0	20
4	7.4	84	6	1.50E-05	19	74	57	40	59	74	0	0	0	0.3	0	196	-0.14	0	0	20
4.2	5.9	71	6	7.70E-06	16	66	51	39	52	66	0	0	0	0.3	0	186	-0.12	0	0	20
4.4	5.1	129	5	1.30E-06	16	70	48	39	63	78	0	0	0	0.3	0	200	-0.16	0	0	20
4.6	8.2	120	6	9.60E-06	22	88	59	41	70	88	0	0	0	0.3	0	211	-0.16	0	0	20
4.8	13.4	40	6	4.30E-04	25	72	70	42	58	72	0	0	0	0.3	0	197	-0.18	0	0	20
5	11.5	111	6	4.10E-05	27	95	67	42	76	95	0	0	0	0.3	0	220	-0.17	0	0	20
5.2	15.9	124	6	1.20E-04	33	109	77	43	87	109	0	0	0	0.3	0	233	-0.2	0	0	20
5.4	10.9	151	6	1.60E-05	27	106	65	41	85	106	0	0	0	0.3	0	230	-0.18	0	0	20
5.6	18.7	218	6	6.50E-05	41	142	82	44	114	142	0	0	0	0.3	0	262	-0.23	0	0	20
5.8	22.9	200	6	1.70E-04	46	146	89	45	116	146	0	0	0	0.3	0	266	-0.25	0	0	20

CPT GTA 2/2

In situ data					Basic output data															
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	8.2	124	0	0	8.2	1.5	5	2.1	19.3	7.7	0	7.7	1059	1.5	0	6	0.57	2	1.9	163.8
0.6	7.9	89	0	0	7.9	1.1	6	2	18.9	11.5	0	11.5	684.5	1.1	0	6	0.54	2	1.8	157.8
0.8	7.5	124	0	0	7.5	1.7	5	2.2	19.3	15.4	0	15.4	486.5	1.7	0	6	0.6	2	1.9	149.7
1	5.2	93	0	0	5.2	1.8	5	2.3	18.8	19.2	0	19.2	270.5	1.8	0	5	0.65	2	2.1	103.6
1.2	3	44	0	0	3	1.5	5	2.4	17.8	22.7	0	22.7	131.1	1.5	0	5	0.7	2	2.2	59.5
1.4	2.7	13	0	0	2.7	0.5	5	2.2	16.3	26	0	26	103	0.5	0	6	0.61	2	2	53.5
1.6	2.1	18	2	0	2.1	0.9	5	2.4	16.6	29.3	2	27.3	75.8	0.9	0	5	0.7	2	2.2	41.4
1.8	1.3	9	3.9	0	1.3	0.7	5	2.6	15.6	32.4	3.9	28.5	44.5	0.7	0	5	0.75	2	2.3	25.4
2	1	67	5.9	0	1	6.7	3	3.2	17.8	36	5.9	30.1	32.1	6.9	0	3	1	2	3	19.3
2.2	2.3	80	7.8	0	2.3	3.5	4	2.8	18.3	39.6	7.8	31.8	71.1	3.5	0	4	0.83	2	2.5	45.2
2.4	4.2	67	9.8	0	4.2	1.6	5	2.3	18.4	43.3	9.8	33.5	124.1	1.6	0	5	0.67	2	2.1	83.2
2.6	5.9	71	11.8	0	5.9	1.2	5	2.1	18.6	47	11.8	35.3	166	1.2	0	6	0.61	1.9	1.9	110.1
2.8	4.3	58	13.7	0	4.3	1.3	5	2.3	18.2	50.7	13.7	36.9	115.1	1.4	0	5	0.66	1.9	2.1	81.7
3	4.8	53	15.7	0	4.8	1.1	5	2.2	18.2	54.3	15.7	38.6	123	1.1	0	6	0.63	1.8	2	86.3
3.2	5.8	53	17.7	0	5.8	0.9	5	2.1	18.2	58	17.7	40.3	142.6	0.9	0	6	0.59	1.7	1.9	98.3
3.4	4.9	107	19.6	0	4.9	2.2	5	2.4	19	61.8	19.6	42.1	114.9	2.2	0	5	0.7	1.8	2.2	88.9
3.6	6.9	80	21.6	0	6.9	1.2	5	2.1	18.8	65.5	21.6	43.9	155.7	1.2	0	6	0.6	1.6	1.9	112.2
3.8	9.2	49	23.5	0	9.2	0.5	6	1.8	18.3	69.2	23.5	45.6	200.2	0.5	0	6	0.5	1.5	1.6	135
4	7.8	89	25.5	0	7.8	1.1	6	2	18.9	73	25.5	47.4	163	1.2	0	6	0.59	1.6	1.9	120.4
4.2	6.2	71	27.5	0	6.2	1.1	5	2.1	18.6	76.7	27.5	49.2	124.6	1.2	0	6	0.62	1.6	2	95.4
4.4	4.9	133	29.4	0	4.9	2.7	5	2.4	19.2	80.5	29.4	51.1	94.5	2.8	0	5	0.75	1.7	2.3	79.6
4.6	7.8	129	31.4	0	7.8	1.7	5	2.1	19.4	84.4	31.4	53	145.7	1.7	0	5	0.64	1.5	2	116.2
4.8	12.9	80	33.4	0	12.9	0.6	6	1.7	19	88.2	33.4	54.8	233.7	0.6	0	6	0.49	1.3	1.6	171.7
5	11.9	89	35.3	0	11.9	0.7	6	1.8	19.1	92	35.3	56.7	208.4	0.8	0	6	0.52	1.3	1.7	158.5
5.2	16.2	133	37.3	0	16.2	0.8	6	1.7	19.7	96	37.3	58.7	274.6	0.8	0	6	0.49	1.3	1.6	209.8
5.4	10.5	147	39.3	0	10.5	1.4	6	2	19.6	99.9	39.2	60.6	171.6	1.4	0	6	0.61	1.4	1.9	140.9
5.6	19.4	209	41.2	0	19.4	1.1	6	1.7	20.3	103.9	41.2	62.7	307.7	1.1	0	6	0.51	1.3	1.7	245.1
5.8	22.4	240	42.2	0	22.4	1.1	6	1.7	20.5	108	43.2	64.9	343.8	1.1	0	6	0.5	1.2	1.6	276.8
6	23.2	200	43.2	0	23.2	0.9	6	1.6	20.3	112.1	45.1	67	344.9	0.9	0	6	0.47	1.2	1.5	279.1

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	8.2	124	6	1.70E-05	20	80	68	42	64	80	0	0	0	0.3	0	201	-0.19	0	0	20
0.6	7.9	89	6	3.00E-05	19	69	67	42	55	69	0	0	0	0.3	0	189	-0.18	0	0	20
0.8	7.5	124	6	1.20E-05	19	78	65	42	62	78	0	0	0	0.3	0	199	-0.19	0	0	20
1	5.2	93	5	4.50E-06	15	64	54	40	51	64	0	0	0	0.3	0	183	-0.15	0	0	20
1.2	3	44	5	1.90E-06	9	43	41	37	34	43	0	0	0	0.3	0	154	-0.1	0	0	20
1.4	2.7	13	6	9.60E-06	7	29	39	37	23	29	0	0	0	0.3	0	132	-0.04	0	0	20
1.6	2.1	18	5	2.00E-06	6	30	34	35	24	30	0	0	0	0.3	0	132	-0.04	0	0	20
1.8	1.3	9	5	7.60E-07	4	18	27	33	17	22	0	0	0	0.3	0	117	-0.01	0	0	20
2	1	67	3	6.60E-09	5	14	0	0	0	39	14	69	1.4	0.3	6.4	146	0	1.2	1	20
2.2	2.3	80	4	1.80E-07	9	32	0	0	40	50	14	162	3.2	0.3	14.9	164	0	1.7	2	20
2.4	4.2	67	5	3.50E-06	12	54	49	39	43	54	0	0	0	0.3	0	170	-0.13	0	0	20
2.6	5.9	71	6	1.20E-05	15	61	56	40	49	61	0	0	0	0.3	0	180	-0.14	0	0	20
2.8	4.3	58	5	4.70E-06	12	52	48	39	42	52	0	0	0	0.3	0	168	-0.12	0	0	20
3	4.8	53	6	8.00E-06	13	53	50	39	42	53	0	0	0	0.3	0	169	-0.12	0	0	20
3.2	5.8	53	6	1.60E-05	15	57	53	40	45	57	0	0	0	0.3	0	175	-0.12	0	0	20
3.4	4.9	107	5	2.10E-06	15	69	50	39	55	69	0	0	0	0.3	0	189	-0.15	0	0	20
3.6	6.9	80	6	1.30E-05	18	70	57	40	56	70	0	0	0	0.3	0	191	-0.14	0	0	20
3.8	9.2	49	6	9.10E-05	20	66	62	41	52	66	0	0	0	0.3	0	188	-0.14	0	0	20
4	7.8	89	6	1.60E-05	20	76	59	40	61	76	0	0	0	0.3	0	199	-0.15	0	0	20
4.2	6.2	71	6	9.40E-06	16	67	52	39	53	67	0	0	0	0.3	0	187	-0.13	0	0	20
4.4	4.9	133	5	1.00E-06	16	68	48	39	63	78	0	0	0	0.3	0	200	-0.16	0	0	20
4.6	7.8	129	5	6.80E-06	21	89	58	40	71	89	0	0	0	0.3	0	212	-0.16	0	0	20
4.8	12.9	80	6	1.20E-04	27	87	70	42	70	87	0	0	0	0.3	0	212	-0.18	0	0	20
5	11.9	89	6	7.10E-05	26	89	67	42	71	89	0	0	0	0.3	0	214	-0.17	0	0	20
5.2	16.2	133	6	1.10E-04	34	112	77	43	90	112	0	0	0	0.3	0	236	-0.21	0	0	20
5.4	10.5	147	6	1.50E-05	27	104	63	41	83	104	0	0	0	0.3	0	228	-0.17	0	0	20
5.6	19.4	209	6	8.30E-05	42	141	84	44	113	141	0	0	0	0.3	0	262	-0.23	0	0	20
5.8	22.4	240	6	1.10E-04	47	156	89	44	125	156	0	0	0	0.3	0	273	-0.25	0	0	20
6	23.2	200	6	1.80E-04	47	147	89	45	117	147	0	0	0	0.3	0	267	-0.25	0	0	20

CPT EE 1/2

In situ data					Basic output data															
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	3.4	62	0	0	3.4	1.8	5	2.4	18.2	7.3	0	7.3	465.9	1.8	0	5	0.7	2	2.2	67.9
0.6	5.7	196	0	0	5.7	3.4	4	2.5	19.7	11.2	0	11.2	506.7	3.4	0	5	0.71	2	2.3	113.8
0.8	9.7	227	0	0	9.7	2.3	5	2.2	20.1	15.2	0	15.2	635.2	2.3	0	5	0.61	2	2	193.7
1	7.4	62	0	0	7.4	0.8	6	2	18.5	18.9	0	18.9	389.5	0.8	0	6	0.52	2	1.7	147.6
1.2	4.1	84	0	0	4.1	2	5	2.4	18.6	22.7	0	22.7	179.8	2.1	0	5	0.69	2	2.2	81.5
1.4	3.3	40	0	0	3.3	1.2	5	2.4	17.7	26.2	0	26.2	124.9	1.2	0	5	0.67	2	2.1	65.5
1.6	2.5	31	0	0	2.5	1.2	5	2.5	17.3	29.7	0	29.7	83.3	1.3	0	5	0.71	2	2.2	49.4
1.8	2.3	40	0	0	2.3	1.7	4	2.6	17.6	33.2	0	33.2	68.3	1.8	0	5	0.76	2	2.3	45.3
2	2	27	0	0	2	1.4	4	2.6	17	36.6	0	36.6	53.7	1.4	0	5	0.75	2	2.3	39.3
2.2	2.5	31	0	0	2.5	1.2	5	2.5	17.3	40	0	40	61.4	1.3	0	5	0.72	1.9	2.2	47.5
2.4	1.7	9	0	0	1.7	0.5	5	2.4	15.7	43.2	0	43.2	38.4	0.5	0	5	0.71	1.8	2.2	30.1
2.6	1.8	53	0	0	1.8	2.9	4	2.8	17.8	46.7	0	46.7	37.5	3	0	4	0.86	1.9	2.6	33.7
2.8	3.3	40	0	0	3.3	1.2	5	2.4	17.7	50.3	0	50.3	64.6	1.2	0	5	0.71	1.6	2.2	52.8
3	4.8	49	2	0	4.8	1	5	2.2	18.1	53.9	2	51.9	91.4	1	0	6	0.65	1.5	2	72.6
3.2	3.7	53	3.9	0	3.7	1.4	5	2.4	18.1	57.5	3.9	53.6	68	1.5	0	5	0.72	1.6	2.2	56.9
3.4	4.1	67	5.9	0	4.1	1.6	5	2.4	18.4	61.2	5.9	55.3	73.1	1.7	0	5	0.72	1.5	2.2	61.9
3.6	4.2	67	7.8	0	4.2	1.6	5	2.3	18.4	64.9	7.8	57	72.6	1.6	0	5	0.72	1.5	2.2	61.9
3.8	4	62	9.8	0	4	1.5	5	2.3	18.3	68.5	9.8	58.7	67	1.6	0	5	0.72	1.5	2.2	57.9
4	2.8	49	11.8	0	2.8	1.7	5	2.5	17.9	72.1	11.8	60.3	45.3	1.8	0	5	0.78	1.5	2.4	40.6
4.2	1.9	18	13.7	0	1.9	0.9	5	2.5	16.6	75.4	13.7	61.7	29.6	1	0	5	0.79	1.5	2.4	26.7
4.4	2.4	31	15.7	0	2.4	1.3	5	2.5	17.3	78.8	15.7	63.2	36.8	1.3	0	5	0.78	1.4	2.4	33.3
4.6	1.4	18	17.7	0	1.4	1.3	4	2.7	16.4	82.1	17.7	64.5	20.5	1.4	0	4	0.86	1.5	2.6	19.3
4.8	0.8	18	19.6	0	0.8	2.2	3	3	16.2	85.4	19.6	65.8	10.9	2.5	0	3	1	1.5	2.9	10.9
5	1.1	27	21.6	0	1.1	2.4	3	2.9	16.8	88.7	21.6	67.2	15.1	2.7	0	4	0.96	1.5	2.8	14.9
5.2	2	31	23.5	0	2	1.5	4	2.6	17.2	92.2	23.5	68.6	27.9	1.6	0	5	0.84	1.4	2.5	26.2
5.4	3.1	22	25.5	0	3.1	0.7	5	2.3	17	95.6	25.5	70.1	42.9	0.7	0	5	0.71	1.3	2.2	38.8
5.6	5.9	84	27.5	0	5.9	1.4	5	2.2	18.8	99.3	27.5	71.9	80.8	1.4	0	5	0.69	1.3	2.1	73
5.8	2.6	58	29.4	0	2.6	2.2	4	2.6	18	102.9	29.4	73.5	34	2.3	0	4	0.85	1.3	2.5	32.5
6	2.6	49	31.4	0	2.6	1.9	4	2.5	17.8	106.5	31.4	75.1	33.3	2	0	5	0.83	1.3	2.5	31.7
6.2	3.4	36	33.4	0	3.4	1.1	5	2.3	17.6	110	33.4	76.7	43	1.1	0	5	0.75	1.2	2.3	40.2
6.4	3.4	58	35.3	0	3.4	1.7	5	2.4	18.1	113.6	35.3	78.3	42	1.8	0	5	0.79	1.2	2.4	40
6.6	3.4	40	37.3	0	3.4	1.2	5	2.3	17.7	117.2	37.3	79.9	41.2	1.2	0	5	0.76	1.2	2.3	39
6.8	7.6	71	39.3	0	7.6	0.9	6	2	18.7	120.9	39.2	81.7	91.7	0.9	0	6	0.63	1.1	2	85.1
7	5.3	80	41.2	0	5.3	1.5	5	2.2	18.7	124.7	41.2	83.5	62.1	1.5	0	5	0.73	1.1	2.2	59.2
7.2	5.1	98	42.2	0	5.1	1.9	5	2.3	18.9	128.4	43.2	85.3	58.4	2	0	5	0.77	1.1	2.3	56.3
7.4	5.2	62	43.2	0	5.2	1.2	5	2.2	18.4	132.1	45.1	87	58.4	1.2	0	5	0.72	1.1	2.2	56.1
7.6	4.1	89	46	0	4.1	2.2	5	2.4	18.7	135.8	47.1	88.8	44.8	2.2	0	5	0.81	1.1	2.4	43.8
7.8	7	102	47.8	0	7	1.5	5	2.1	19.1	139.7	49	90.6	75.8	1.5	0	5	0.7	1.1	2.1	73.6
8	6.2	120	49.6	0	6.2	1.9	5	2.3	19.2	143.5	51	92.5	65.6	2	0	5	0.75	1.1	2.2	64.3
8.2	3.5	40	51.5	0	3.5	1.1	5	2.3	17.7	147	53	94.1	35.8	1.2	0	5	0.78	1	2.3	35.3
8.4	6.4	80	53.3	0	6.4	1.2	5	2.1	18.7	150.8	54.9	95.9	65.3	1.3	0	5	0.71	1	2.1	64.5
8.6	6.1	102	55.1	0	6.1	1.7	5	2.2	19	154.6	56.9	97.7	61	1.7	0	5	0.75	1	2.2	60.6
8.8	3	49	56.9	0	3	1.6	5	2.5	17.9	158.2	58.9	99.3	28.7	1.7	0	5	0.85	1	2.5	28.7
9	3.5	31	58.7	0	3.5	0.9	5	2.3	17.4	161.6	60.8	100.8	33.2	0.9	0	5	0.77	1	2.3	33.3
9.2	2.9	31	60.6	0	2.9	1.1	5	2.4	17.3	165.1	62.8	102.3	26.8	1.1	0	5	0.82	1	2.4	27
9.4	7.4	111	62.4	0	7.4	1.5	5	2.1	19.2	169	64.7	104.2	69.5	1.5	0	5	0.72	1	2.1	70.3
9.6	8.2	120	64.2	0	8.2	1.5	5	2.1	19.3	172.8	66.7	106.1	75.8	1.5	0	5	0.71	1	2.1	77.1
9.8	9.9	133	66	0	9.9	1.3	6	2	19.5	176.7	68.7	108	90.1	1.4	0	6	0.68	0.9	2	92.4
10	8.2	124	67.8	0	8.2	1.5	5	2.1	19.3	180.6	70.6	109.9	73.1	1.5	0	5	0.72	0.9	2.1	75.1
10.2	6.1	80	69.6	0	6.1	1.3	5	2.2	18.7	184.3	72.6	111.7	53.1	1.3	0	5	0.74	0.9	2.2	54.6
10.4	9.6	71	71.5	0	9.6	0.7	6	1.8	18.8	188.1	74.6	113.5	83	0.8	0	6	0.62	0.9	1.9	87.1
10.6	7.8	129	73.3	0	7.8	1.7	5	2.1	19.4	191.9	76.5	115.4	66	1.7	0	5	0.74	0.9	2.2	68.5
10.8	4.3	67	75.1	0	4.3	1.6	5	2.3	18.4	195.6	78.5	117.1	35.2	1.6	0	5	0.82	0.9	2.4	36.2
11	7.1	93	76.9	0	7.1	1.3	5	2.1	19	199.4	80.4	119	58.1	1.3	0	5	0.73	0.9	2.2	60.9
11.2	8.3	116	78.7	0	8.3	1.4	5	2.1	19.3	203.3	82.4	120.9	67.1	1.4	0	5	0.72	0.9	2.1	70.8
11.4	5.8	89	80.5	0	5.8	1.5	5	2.2	18.8	207	84.4	122.7	45.7	1.6	0	5	0.78	0.9	2.3	47.8
11.6	7.4	124	82.4	0	7.4	1.7	5	2.2	19.3	210.9	86.3	124.6	57.8	1.7	0	5	0.76	0.8	2.2	61
11.8	7.6	120	84.2	0	7.6	1.6	5	2.1	19.3	214.8	88.3	126.5	58.5	1.6	0	5	0.75	0.8	2.2	62

In situ data					Estimations																
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)	
0.4	3.4	62	5	1.70E-06	11	47	44	38	40	50	0	0	0	0	0.3	0	164	-0.12	0	0	20
0.6	5.7	196	5	1.30E-06	18	80	57	40	71	89	0	0	0	0	0.3	0	210	-0.2	0	0	20
0.8	9.7	227	5	8.50E-06	26	107	74	43	86	107	0	0	0	0	0.3	0	229	-0.23	0	0	20
1	7.4	62	6	4.80E-05	17	60	65	41	48	60	0	0	0	0	0.3	0	178	-0.16	0	0	20
1.2	4.1	84	5	2.00E-06	12	59	48	39	47	59	0	0	0	0	0.3	0	176	-0.14	0	0	20
1.4	3.3	40	5	3.50E-06	10	43	43	38	34	43	0	0	0	0	0.3	0	154	-0.09	0	0	20
1.6	2.5	31	5	1.70E-06	8	35	38	36	29	37	0	0	0	0	0.3	0	144	-0.07	0	0	20
1.8	2.3	40	5	7.30E-07	8	32	36	36	31	39	0	0	0	0	0.3	0	148	-0.09	0	0	20
2	2	27	5	8.20E-07	7	27	33	35	26	33	0	0	0	0	0.3	0	138	-0.07	0	0	20
2.2	2.5	31	5	1.50E-06	8	34	37	36	30	37	0	0	0	0	0.3	0	145	-0.07	0	0	20
2.4	1.7	9	5	1.70E-06	5	23	29	34	19	24	0	0	0	0	0.3	0	123	0	0	0	20
2.6	1.8	53	4	1.30E-07	7	25	0	0	33	42	14	125	2.4	0.3	11.1	151	0	1.5	2.3	20	
2.8	3.3	40	5	2.10E-06	10	46	39	37	37	46	0	0	0	0	0.3	0	161	-0.08	0	0	20
3	4.8	49	6	6.10E-06	13	56	46	38	44	56	0	0	0	0	0.3	0	174	-0.1	0	0	20
3.2	3.7	53	5	1.80E-06	11	51	40	37	43	53	0	0	0	0	0.3	0	170	-0.09	0	0	20
3.4	4.1	67	5	1.70E-06	13	57	42	37	48	60	0	0	0	0	0.3	0	179	-0.11	0	0	20
3.6	4.2	67	5	1.80E-06	13	58	42	37	48	61	0	0	0	0	0.3	0	180	-0.11	0	0	20
3.8	4	62	5	1.60E-06	12	55	41	37	47	59	0	0	0	0	0.3	0	178	-0.1	0	0	20
4	2.8	49	5	5.40E-07	10	38	34	35	40	50	0	0	0	0	0.3	0	165	-0.08	0	0	20
4.2	1.9	18	5	5.30E-07	7	26	28	33	27	33	0	0	0	0	0.3	0	141	-0.03	0	0	20
4.4	2.4	31	5	5.70E-07	8	33	31	34	33	42	0	0	0	0	0.3	0	154	-0.05	0	0	20
4.6	1.4	18	4	1.40E-07	5	18	0	0	25	31	14	94	1.4	0.3	6.4	136	0	1.2	5.1	20	
4.8	0.8	18	3	1.20E-08	4	8	0	0	0	26	14	51	0.8	0.3	3.6	126	0	1	2.8	20	
5	1.1	27	4	2.30E-08	5	14	0	0	0	33	14	73	1.1	0.3	4.9	138	0	1.1	2.6	20	
5.2	2	31	5	2.20E-07	7	27	27	33	33	41	0	0	0	0	0.3	0	153	-0.05	0	0	20
5.4	3.1	22	5	2.20E-06	9	42	33	35	34	42	0	0	0	0	0.3	0	156	-0.03	0	0	20
5.6	5.9	84	5	3.30E-06	17	76	46	38	61	76	0	0	0	0	0.3	0	200	-0.11	0	0	20
5.8	2.6	58	4	2.00E-07	10	35	0	0	44	55	14	179	2.3	0.3	10.7	173	0	1.5	3	20	
6	2.6	49	5	2.50E-07	10	35	30	34	42	52	0	0	0	0	0.3	0	169	-0.08	0	0	20
6.2	3.4	36	5	1.30E-06	11	46	34	35	41	51	0	0	0	0	0.3	0	169	-0.05	0	0	20
6.4	3.4	58	5	5.40E-07	12	46	34	35	48	60	0	0	0	0	0.3	0	180	-0.08	0	0	20
6.6	3.4	40	5	1.00E-06	11	46	33	35	43	54	0	0	0	0	0.3	0	172	-0.06	0	0	20
6.8	7.6	71	6	1.00E-05	20	80	49	39	64	80	0	0	0	0	0.3	0	205	-0.11	0	0	20
7	5.3	80	5	1.80E-06	16	73	41	37	61	76	0	0	0	0	0.3	0	200	-0.1	0	0	20
7.2	5.1	98	5	9.70E-07	17	70	40	37	65	82	0	0	0	0	0.3	0	206	-0.11	0	0	20
7.4	5.2	62	5	2.40E-06	16	71	40	37	56	71	0	0	0	0	0.3	0	194	-0.08	0	0	20
7.6	4.1	89	5	4.20E-07	14	56	35	36	60	76	0	0	0	0	0.3	0	199	-0.1	0	0	20
7.8	7	102	5	3.10E-06	20	91	46	38	73	91	0	0	0	0	0.3	0	216	-0.11	0	0	20
8	6.2	120	5	1.30E-06	20	85	43	37	75	94	0	0	0	0	0.3	0	219	-0.12	0	0	20
8.2	3.5	40	5	8.00E-07	12	47	32	35	45	57	0	0	0	0	0.3	0	178	-0.05	0	0	20
8.4	6.4	80	5	3.10E-06	19	83	43	38	66	83	0	0	0	0	0.3	0	209	-0.1	0	0	20
8.6	6.1	102	5	1.50E-06	19	83	42	37	72	90	0	0	0	0	0.3	0	216	-0.11	0	0	20
8.8	3	49	5	2.50E-07	11	40	29	34	48	60	0	0	0	0	0.3	0	181	-0.06	0	0	20
9	3.5	31	5	1.00E-06	11	47	31	34	43	54	0	0	0	0	0.3	0	175	-0.03	0	0	20
9.2	2.9	31	5	4.40E-07	10	38	28	33	41	52	0	0	0	0	0.3	0	171	-0.03	0	0	20
9.4	7.4	111	5	2.70E-06	22	99	45	38	79	99	0	0	0	0	0.3	0	225	-0.11	0	0	20
9.6	8.2	120	5	3.50E-06	24	105	47	38	83	105	0	0	0	0	0.3	0	231	-0.12	0	0	20
9.8	9.9	133	6	6.30E-06	27	114	51	39	91	114	0	0	0	0	0.3	0	239	-0.13	0	0	20
10	8.2	124	5	3.10E-06	24	107	46	38	85	107	0	0	0	0	0.3	0	233	-0.12	0	0	20
10.2	6.1	80	5	1.90E-06	19	86	39	37	69	86	0	0	0	0	0.3	0	212	-0.09	0	0	20
10.4	9.6	71	6	1.70E-05	24	92	50	39	73	92	0	0	0	0	0.3	0	219	-0.1	0	0	20
10.6	7.8	129	5	2.10E-06	24	109	44	38	87	109	0	0	0	0	0.3	0	235	-0.12	0	0	20
10.8	4.3	67	5	4.90E-07	15	58	32	35	61	76	0	0	0	0	0.3	0	202	-0.07	0	0	20
11	7.1	93	5	2.40E-06	21	96	42	37	76	96	0	0	0	0	0.3	0	223	-0.09	0	0	20
11.2	8.3	116	5	3.10E-06	24	108	45	38	86	108	0	0	0	0	0.3	0	234	-0.11	0	0	20
11.4	5.8	89	5	1.00E-06	19	79	37	36	73	91	0	0	0	0	0.3	0	218	-0.09	0	0	20
11.6	7.4	124	5	1.50E-06	23	101	42	37	87	109	0	0	0	0	0.3	0	235	-0.11	0	0	20
11.8	7.6	120	5	1.80E-06	23	104	42	37	87	109	0	0	0	0	0.3	0	235	-0.11	0	0	20

CPT EE 2/2

In situ data					Basic output data															
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.9	67	0	0	1.9	3.5	3	2.8	18.1	7.2	0	7.2	261.9	3.5	0	4	0.84	2	2.6	37.9
0.6	6.2	71	0	0	6.2	1.1	5	2.1	18.6	10.9	0	10.9	565.4	1.1	0	6	0.57	2	1.9	123.8
0.8	6.5	84	0	0	6.5	1.3	5	2.1	18.8	14.7	0	14.7	441	1.3	0	6	0.58	2	1.9	129.7
1	5.5	147	0	0	5.5	2.7	5	2.4	19.4	18.6	0	18.6	295	2.7	0	5	0.69	2	2.2	109.6
1.2	3.6	173	0	0	3.6	4.8	4	2.7	19.4	22.5	0	22.5	159.3	4.8	0	4	0.81	2	2.5	71.6
1.4	2.8	160	0	0	2.8	5.7	3	2.8	19.2	26.3	0	26.3	105.4	5.8	0	4	0.86	2	2.6	55.5
1.6	2.3	93	0	0	2.3	4	3	2.8	18.5	30	0	30	75.6	4.1	0	4	0.85	2	2.6	45.4
1.8	2.5	93	0	0	2.5	3.7	4	2.7	18.6	33.7	0	33.7	73.1	3.8	0	4	0.83	2	2.5	49.3
2	1.6	62	0	0	1.6	3.9	3	2.9	17.9	37.3	0	37.3	41.9	4	0	4	0.89	2	2.7	31.3
2.2	0.9	36	0	0	0.9	4	3	3.1	17.1	40.7	0	40.7	21.1	4.2	0	3	0.97	2	2.9	17.2
2.4	0.7	27	0	0	0.7	3.9	3	3.2	16.6	44	0	44	14.9	4.1	0	3	1	2	3	13.1
2.6	0.5	62	0	0	0.5	12.4	2	3.6	17.5	47.5	0	47.5	9.5	13.7	0	3	1	2	3.4	9
2.8	4.8	120	0	0	4.8	2.5	5	2.4	19.1	51.4	0	51.4	92.5	2.5	0	5	0.74	1.6	2.3	77.7
3	5.1	53	2	0	5.1	1	5	2.2	18.2	55	2	53	95.1	1.1	0	6	0.64	1.5	2	75.9
3.2	7.5	111	3.9	0	7.5	1.5	5	2.1	19.2	58.8	3.9	54.9	135.5	1.5	0	6	0.64	1.5	2	109.1
3.4	8.7	89	5.9	0	8.7	1	6	2	19	62.6	5.9	56.7	152.2	1	0	6	0.59	1.4	1.9	120.4
3.6	11.9	116	7.8	0	11.9	1	6	1.8	19.4	66.5	7.8	58.7	201.7	1	0	6	0.55	1.3	1.8	158.5
3.8	5.8	93	9.8	0	5.8	1.6	5	2.2	18.9	70.3	9.8	60.5	94.8	1.6	0	5	0.69	1.4	2.1	81
4	5.3	84	11.8	0	5.3	1.6	5	2.3	18.7	74	11.8	62.3	84	1.6	0	5	0.7	1.4	2.1	72.8
4.2	6.9	173	13.7	0	6.9	2.5	5	2.3	19.7	78	13.7	64.2	106.3	2.5	0	5	0.72	1.4	2.2	94
4.4	10	98	15.7	0	10	1	6	1.9	19.1	81.8	15.7	66.1	150.1	1	0	6	0.58	1.3	1.8	126.2
4.6	11.3	138	17.6	0	11.3	1.2	6	1.9	19.6	85.7	17.7	68.1	164.8	1.2	0	6	0.59	1.3	1.9	140.9
4.8	8.9	116	19.6	0	8.9	1.3	6	2	19.3	89.6	19.6	69.9	126	1.3	0	6	0.63	1.3	2	110.4
5	7.9	102	21.6	0	7.9	1.3	5	2.1	19.1	93.4	21.6	71.8	108.8	1.3	0	6	0.65	1.2	2	96.8
5.2	4.3	62	23.5	0	4.3	1.4	5	2.3	18.3	97	23.5	73.5	57.2	1.5	0	5	0.74	1.3	2.2	52.8
5.4	2.8	31	25.5	0	2.8	1.1	5	2.4	17.3	100.5	25.5	75	36.1	1.1	0	5	0.77	1.2	2.3	33.8
5.6	2.4	76	27.4	0	2.4	3.2	4	2.7	18.3	104.2	27.5	76.7	30	3.3	0	4	0.9	1.3	2.7	29.2
5.8	1.2	67	29.4	0	1.2	5.6	3	3.1	17.9	107.8	29.4	78.3	14	6.1	0	3	1	1.3	3.1	14
6	8.7	133	31.4	0	8.7	1.5	5	2.1	19.4	111.6	31.4	80.3	107.1	1.5	0	5	0.67	1.2	2	99.5
6.2	6.9	49	33.3	0	6.9	0.7	6	2	18.2	115.3	33.4	81.9	82.9	0.7	0	6	0.62	1.1	1.9	76.9
6.4	3.3	89	35.3	0	3.3	2.7	4	2.6	18.6	119	35.3	83.7	38.1	2.8	0	4	0.85	1.2	2.5	37.1
6.6	1.1	40	37.2	0	1.1	3.6	3	3	17.3	122.5	37.3	85.2	11.6	4.1	0	3	1	1.2	3	11.6
6.8	1.9	36	39.2	0	1.9	1.9	4	2.7	17.4	125.9	39.2	86.7	20.6	2	0	4	0.9	1.1	2.6	20.3
7	4.9	40	41.2	0	4.9	0.8	5	2.1	17.8	129.5	41.2	88.3	54.1	0.8	0	5	0.69	1.1	2.1	52.1
7.2	6.7	44	43.1	0	6.7	0.7	6	1.9	18.1	133.1	43.2	89.9	73.1	0.7	0	6	0.63	1.1	1.9	70.3
7.4	5.2	58	45.1	0	5.2	1.1	5	2.2	18.3	136.8	45.1	91.6	55.3	1.1	0	5	0.72	1.1	2.2	54
7.6	2.9	53	47	0	2.9	1.8	5	2.5	18	140.4	47.1	93.3	29.7	1.9	0	4	0.85	1.1	2.5	29.4
7.8	9	116	49	0	9	1.3	6	2	19.3	144.2	49	95.2	93.2	1.3	0	6	0.67	1	2	91.6
8	6.1	98	51	0	6.1	1.6	5	2.2	19	148	51	97	61.5	1.6	0	5	0.74	1	2.2	61
8.2	6.8	129	52.9	0	6.8	1.9	5	2.2	19.3	151.9	53	98.9	67.3	1.9	0	5	0.75	1	2.2	67.1
8.4	3.4	76	54.9	0	3.4	2.2	4	2.5	18.4	155.6	54.9	100.6	32.4	2.3	0	4	0.86	1	2.5	32.4
8.6	7.8	67	56.8	0	7.8	0.9	6	2	18.6	159.3	56.9	102.4	74.7	0.9	0	6	0.65	1	2	75.3
8.8	7.7	71	58.8	0	7.7	0.9	6	2	18.7	163	58.9	104.2	72.5	0.9	0	6	0.66	1	2	73.5
9	6.9	27	60.8	0	6.9	0.4	6	1.8	17.5	166.5	60.8	105.7	63.8	0.4	0	6	0.61	1	1.8	65.2
9.2	7.1	120	62.7	0	7.1	1.7	5	2.2	19.2	170.4	62.8	107.6	64.5	1.7	0	5	0.74	0.9	2.2	65.7
9.4	9.5	138	64.7	0	9.5	1.5	5	2	19.5	174.3	64.7	109.5	85.3	1.5	0	5	0.69	0.9	2.1	87.7
9.6	8.4	124	66.6	0	8.4	1.5	5	2.1	19.3	178.2	66.7	111.4	73.9	1.5	0	5	0.71	0.9	2.1	76.2
9.8	6.5	71	68.6	0	6.5	1.1	5	2.1	18.6	181.9	68.7	113.2	55.9	1.1	0	5	0.72	0.9	2.1	57.9
10	9.2	129	70.6	0	9.2	1.4	5	2	19.4	185.8	70.6	115.1	78.4	1.4	0	5	0.7	0.9	2.1	81.8
10.2	4.6	71	72.5	0	4.6	1.5	5	2.3	18.5	189.5	72.6	116.9	37.9	1.6	0	5	0.81	0.9	2.4	39
10.4	7.3	116	74.5	0	7.3	1.6	5	2.1	19.2	193.3	74.6	118.7	60	1.6	0	5	0.75	0.9	2.2	62.6
10.6	5.5	102	76.4	0	5.5	1.8	5	2.3	19	197.1	76.5	120.6	44.1	1.9	0	5	0.81	0.9	2.4	45.7
10.8	7.9	84	78.4	0	7.9	1.1	6	2	18.9	200.9	78.5	122.4	63	1.1	0	5	0.7	0.9	2.1	67
11	7.7	142	80.4	0	7.7	1.8	5	2.2	19.5	204.8	80.4	124.3	60.4	1.9	0	5	0.77	0.8	2.2	63.6
11.2	8.5	116	82.3	0	8.5	1.4	5	2.1	19.3	208.6	82.4	126.2	65.8	1.4	0	5	0.72	0.8	2.1	70.2
11.4	9.3	62	84.3	0	9.3	0.7	6	1.8	18.6	212.3	84.4	128	71.1	0.7	0	6	0.64	0.9	1.9	77.8
11.6	7.2	133	86.2	0	7.2	1.8	5	2.2	19.4	216.2	86.3	129.9	53.9	1.9	0	5	0.78	0.8	2.3	57.1
11.8	6.7	120	88.2	0	6.7	1.8	5	2.2	19.2	220.1	88.3	131.8	49.3	1.8	0	5	0.79	0.8	2.3	52.2

In situ data										Estimations										
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.9	67	4	1.20E-07	8	26	0	0	36	45	14	135	2.7	0.3	12.5	157	0	1.6	2	20
0.6	6.2	71	6	1.70E-05	15	60	59	41	48	60	0	0	0	0.3	0	178	-0.15	0	0	20
0.8	6.5	84	6	1.50E-05	16	65	61	41	52	65	0	0	0	0.3	0	184	-0.16	0	0	20
1	5.5	147	5	2.10E-06	17	78	56	40	62	78	0	0	0	0.3	0	199	-0.18	0	0	20
1.2	3.6	173	4	2.30E-07	13	50	0	0	61	76	14	256	5.1	0.3	23.6	196	0	1.9	1.4	20
1.4	2.8	160	4	9.20E-08	11	39	0	0	0	70	14	198	4	0.3	18.3	188	0	1.8	1.2	20
1.6	2.3	93	4	1.30E-07	9	32	0	0	43	53	14	162	3.2	0.3	15	168	0	1.7	1.7	20
1.8	2.5	93	4	1.90E-07	9	35	0	0	43	54	14	176	3.5	0.3	16.3	170	0	1.7	1.9	20
2	1.6	62	4	6.20E-08	7	22	0	0	0	42	14	112	2.2	0.3	10.3	152	0	1.5	1.8	20
2.2	0.9	36	3	1.40E-08	4	12	0	0	0	30	14	61	1.2	0.3	5.7	132	0	1.2	1.7	20
2.4	0.7	27	3	7.70E-09	4	9	0	0	0	26	14	47	0.9	0.3	4.3	123	0	1.1	1.7	20
2.6	0.5	62	3	5.70E-10	3	4	0	0	0	32	14	32	0.6	0.3	3	134	0	1	0.5	20
2.8	4.8	120	5	1.20E-06	15	66	47	38	60	75	0	0	0	0.3	0	197	-0.15	0	0	20
3	5.1	53	6	6.60E-06	14	58	47	38	47	58	0	0	0	0.3	0	178	-0.1	0	0	20
3.2	7.5	111	6	7.50E-06	20	84	56	40	67	84	0	0	0	0.3	0	207	-0.15	0	0	20
3.4	8.7	89	6	2.00E-05	21	82	59	40	65	82	0	0	0	0.3	0	205	-0.15	0	0	20
3.6	11.9	116	6	4.10E-05	27	98	67	42	78	98	0	0	0	0.3	0	223	-0.18	0	0	20
3.8	5.8	93	5	3.30E-06	17	75	48	39	60	75	0	0	0	0.3	0	198	-0.13	0	0	20
4	5.3	84	5	2.60E-06	16	72	46	38	57	72	0	0	0	0.3	0	194	-0.12	0	0	20
4.2	6.9	173	5	1.70E-06	21	96	52	39	80	101	0	0	0	0.3	0	224	-0.17	0	0	20
4.4	10	98	6	2.40E-05	24	91	60	41	72	91	0	0	0	0.3	0	216	-0.15	0	0	20
4.6	11.3	138	6	2.00E-05	28	106	63	41	85	106	0	0	0	0.3	0	231	-0.17	0	0	20
4.8	8.9	116	6	1.00E-05	23	95	56	40	75	95	0	0	0	0.3	0	219	-0.15	0	0	20
5	7.9	102	6	7.60E-06	21	88	53	39	70	88	0	0	0	0.3	0	213	-0.13	0	0	20
5.2	4.3	62	5	1.50E-06	13	59	39	37	51	64	0	0	0	0.3	0	185	-0.09	0	0	20
5.4	2.8	31	5	7.70E-07	9	38	31	34	37	46	0	0	0	0.3	0	162	-0.05	0	0	20
5.6	2.4	76	4	7.70E-08	10	32	0	0	0	60	14	164	2.1	0.3	9.6	179	0	1.4	2.1	20
5.8	1.2	67	3	4.20E-09	7	15	0	0	0	48	14	78	1	0.3	4.6	162	0	1.1	1.1	20
6	8.7	133	5	5.70E-06	24	102	53	40	82	102	0	0	0	0.3	0	227	-0.14	0	0	20
6.2	6.9	49	6	1.30E-05	18	69	47	38	55	69	0	0	0	0.3	0	193	-0.09	0	0	20
6.4	3.3	89	4	1.90E-07	13	45	0	0	56	70	14	228	2.7	0.3	12.3	193	0	1.6	2.5	20
6.6	1.1	40	3	5.80E-09	6	11	0	0	0	41	14	70	0.8	0.3	3.8	152	0	1	1.7	20
6.8	1.9	36	4	8.00E-08	8	25	0	0	0	46	14	127	1.4	0.3	6.7	161	0	1.3	3.5	20
7	4.9	40	5	3.90E-06	14	61	39	36	49	61	0	0	0	0.3	0	183	-0.06	0	0	20
7.2	6.7	44	6	1.20E-05	17	68	45	38	54	68	0	0	0	0.3	0	192	-0.08	0	0	20
7.4	5.2	58	5	2.50E-06	16	70	39	37	56	70	0	0	0	0.3	0	194	-0.08	0	0	20
7.6	2.9	53	4	2.20E-07	11	39	0	0	47	59	14	198	2.1	0.3	9.7	180	0	1.4	3.7	20
7.8	9	116	6	6.70E-06	25	102	51	39	82	102	0	0	0	0.3	0	228	-0.13	0	0	20
8	6.1	98	5	1.70E-06	19	83	42	37	71	89	0	0	0	0.3	0	214	-0.11	0	0	20
8.2	6.8	129	5	1.50E-06	21	93	44	38	80	101	0	0	0	0.3	0	226	-0.12	0	0	20
8.4	3.4	76	4	1.90E-07	13	46	0	0	57	71	14	233	2.3	0.3	10.7	195	0	1.5	3	20
8.6	7.8	67	6	9.10E-06	21	84	46	38	67	84	0	0	0	0.3	0	210	-0.09	0	0	20
8.8	7.7	71	6	7.50E-06	21	85	46	38	68	85	0	0	0	0.3	0	212	-0.09	0	0	20
9	6.9	27	6	2.20E-05	17	63	43	38	50	63	0	0	0	0.3	0	188	-0.06	0	0	20
9.2	7.1	120	5	1.80E-06	22	97	43	38	81	102	0	0	0	0.3	0	228	-0.11	0	0	20
9.4	9.5	138	5	4.70E-06	27	115	50	39	92	115	0	0	0	0.3	0	240	-0.13	0	0	20
9.6	8.4	124	5	3.30E-06	24	108	47	38	86	108	0	0	0	0.3	0	234	-0.12	0	0	20
9.8	6.5	71	5	3.10E-06	19	84	41	37	67	84	0	0	0	0.3	0	211	-0.08	0	0	20
10	9.2	129	5	4.30E-06	26	113	48	39	90	113	0	0	0	0.3	0	239	-0.12	0	0	20
10.2	4.6	71	5	6.10E-07	16	62	33	35	63	79	0	0	0	0.3	0	205	-0.07	0	0	20
10.4	7.3	116	5	1.80E-06	22	100	42	37	83	104	0	0	0	0.3	0	231	-0.11	0	0	20
10.6	5.5	102	5	6.30E-07	19	74	36	36	75	94	0	0	0	0.3	0	221	-0.1	0	0	20
10.8	7.9	84	5	4.60E-06	22	95	44	38	76	95	0	0	0	0.3	0	223	-0.09	0	0	20
11	7.7	142	5	1.40E-06	24	105	43	37	92	115	0	0	0	0.3	0	241	-0.12	0	0	20
11.2	8.5	116	5	3.20E-06	25	110	45	38	88	110	0	0	0	0.3	0	236	-0.11	0	0	20
11.4	9.3	62	6	1.50E-05	24	91	47	38	72	91	0	0	0	0.3	0	219	-0.09	0	0	20
11.6	7.2	133	5	1.10E-06	23	98	40	37	90	113	0	0	0	0.3	0	239	-0.11	0	0	20
11.8	6.7	120	5	9.30E-07	22	91	39	36	86	107	0	0	0	0.3	0	234	-0.1	0	0	20

CPT poste 1/2

In situ data				Basic output data																
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	2.2	44	0	0	2.2	2	4	2.6	17.6	7.1	0	7.1	310.7	2	0	5	0.76	2	2.4	43.9
0.6	2	93	0	0	2	4.7	3	2.9	18.5	10.8	0	10.8	185	4.7	0	4	0.87	2	2.7	39.8
0.8	2.5	107	0	0	2.5	4.3	3	2.8	18.7	14.5	0	14.5	171.5	4.3	0	4	0.83	2	2.6	49.7
1	2.2	111	0	0	2.2	5	3	2.9	18.7	18.2	0	18.2	119.6	5.1	0	4	0.87	2	2.7	43.6
1.2	1.8	111	0	0	1.8	6.2	3	3	18.6	22	0	22	81	6.2	0	3	0.92	2	2.8	35.6
1.4	2.4	93	0	0	2.4	3.9	4	2.8	18.5	25.7	0	25.7	92.5	3.9	0	4	0.83	2	2.6	47.5
1.6	2.9	71	0	0	2.9	2.4	4	2.6	18.3	29.3	0	29.3	97.9	2.5	0	5	0.76	2	2.4	57.4
1.8	3	49	0	0	3	1.6	5	2.5	17.9	32.9	0	32.9	90.2	1.7	0	5	0.71	2	2.2	59.3
2	2.2	27	0	0	2.2	1.2	5	2.5	17.1	36.3	0	36.3	59.6	1.2	0	5	0.73	2	2.3	43.3
2.2	1.5	44	0	0	1.5	2.9	3	2.9	17.5	39.8	0	39.8	36.7	3	0	4	0.87	2	2.6	29.2
2.4	1.4	31	0	0	1.4	2.2	4	2.8	17.1	43.2	0	43.2	31.4	2.3	0	4	0.85	2	2.6	27.1
2.6	4.8	84	2	0	4.8	1.7	5	2.3	18.7	47	2	45	105.6	1.8	0	5	0.69	1.7	2.1	82.2
2.8	2.5	89	3.9	0	2.5	3.6	4	2.7	18.5	50.7	3.9	46.7	52.4	3.6	0	4	0.84	1.9	2.5	46.4
3	1.9	76	5.9	0	1.9	4	3	2.9	18.2	54.3	5.9	48.4	38.1	4.1	0	4	0.89	1.9	2.7	35.2
3.2	2.8	67	7.8	0	2.8	2.4	4	2.6	18.2	58	7.8	50.1	54.7	2.4	0	5	0.79	1.7	2.4	47.4
3.4	2.7	44	9.8	0	2.7	1.6	5	2.5	17.7	61.5	9.8	51.7	51.1	1.7	0	5	0.76	1.7	2.3	43.7
3.6	4.8	49	11.8	0	4.8	1	5	2.2	18.1	65.1	11.8	53.3	88.8	1	0	6	0.65	1.5	2	71.3
3.8	6.1	124	13.7	0	6.1	2	5	2.3	19.2	69	13.7	55.2	109.3	2.1	0	5	0.7	1.5	2.2	91.3
4	9.3	129	15.7	0	9.3	1.4	6	2	19.4	72.8	15.7	57.2	161.5	1.4	0	6	0.61	1.4	1.9	130
4.2	8.3	142	17.6	0	8.3	1.7	5	2.1	19.5	76.7	17.7	59.1	139.2	1.7	0	5	0.65	1.4	2	115.9
4.4	6.7	98	19.6	0	6.7	1.5	5	2.2	19	80.5	19.6	60.9	108.7	1.5	0	5	0.66	1.4	2	91.9
4.6	9.5	116	21.6	0	9.5	1.2	6	2	19.3	84.4	21.6	62.8	149.9	1.2	0	6	0.6	1.3	1.9	124.8
4.8	11.9	196	23.5	0	11.9	1.6	6	2	20	88.4	23.5	64.9	182.2	1.7	0	6	0.62	1.3	1.9	154.3
5	14.4	160	25.5	0	14.4	1.1	6	1.8	19.8	92.4	25.5	66.9	214	1.1	0	6	0.55	1.2	1.8	178.8
5.2	16.9	98	27.4	0	16.9	0.6	6	1.6	19.3	96.3	27.5	68.8	244.4	0.6	0	6	0.47	1.2	1.5	200.2
5.4	24	67	29.4	0	24	0.3	7	1.3	19	100.1	29.4	70.6	338.5	0.3	0	7	0.36	1.1	1.2	270.5
5.6	19.9	169	31.4	0	19.9	0.8	6	1.6	20	104.1	31.4	72.7	272.5	0.9	0	6	0.49	1.2	1.6	231.9
5.8	10.6	209	33.3	0	10.6	2	5	2.1	20	108.1	33.4	74.7	140.5	2	0	5	0.67	1.2	2	127.4
6	12.2	147	35.3	0	12.2	1.2	6	1.9	19.7	112	35.3	76.7	157.7	1.2	0	6	0.6	1.2	1.9	141.6
6.2	13.3	76	37.2	0	13.3	0.6	6	1.7	19	115.8	37.3	78.5	168	0.6	0	6	0.51	1.1	1.6	149.2
6.4	21.6	129	39.2	0	21.6	0.6	6	1.5	19.8	119.8	39.2	80.5	266.9	0.6	0	6	0.45	1.1	1.5	237.1
6.6	18.8	120	41.2	0	18.8	0.6	6	1.6	19.6	123.7	41.2	82.5	226.5	0.6	0	6	0.48	1.1	1.5	205
6.8	10.5	156	43.1	0	10.5	1.5	6	2	19.7	127.6	43.2	84.5	122.9	1.5	0	6	0.65	1.1	2	115.8
7	10.7	173	45.1	0	10.7	1.6	5	2	19.8	131.6	45.1	86.5	122.3	1.6	0	6	0.66	1.1	2	116.4
7.2	10.3	151	47	0	10.3	1.5	6	2	19.7	135.5	47.1	88.4	115.1	1.5	0	6	0.65	1.1	2	110.3
7.4	14.2	76	49	0	14.2	0.5	6	1.6	19	139.3	49	90.3	155.9	0.5	0	6	0.51	1.1	1.6	148.2
7.6	13.9	142	51	0	13.9	1	6	1.8	19.7	143.3	51	92.2	149.2	1	0	6	0.58	1	1.8	144.3
7.8	14.9	49	52.9	0	14.9	0.3	6	1.5	18.5	147	53	94	157.1	0.3	0	6	0.46	1	1.5	151.9
8	14.7	156	54.9	0	14.7	1.1	6	1.8	19.8	150.9	54.9	96	151.7	1.1	0	6	0.58	1	1.8	149.1
8.2	4.5	89	56.8	0	4.5	2	5	2.4	18.7	154.7	56.9	97.8	44.6	2	0	5	0.81	1	2.4	44.4
8.4	1.8	40	58.8	0	1.8	2.2	4	2.7	17.5	158.2	58.9	99.3	16.7	2.4	0	4	0.95	1	2.8	16.6
8.6	2.2	49	60.8	0	2.2	2.2	4	2.6	17.8	161.7	60.8	100.9	20.3	2.4	0	4	0.92	1	2.7	20.3
8.8	2.2	98	62.7	0	2.2	4.4	3	2.8	18.6	165.4	62.8	102.6	19.9	4.8	0	3	1	1	2.9	19.9
9	4.8	18	64.7	0	4.8	0.4	6	2	16.9	168.8	64.7	104.1	44.6	0.4	0	6	0.66	1	2	45.2
9.2	5.8	58	66.6	0	5.8	1	5	2.1	18.3	172.5	66.7	105.8	53.3	1	0	5	0.71	1	2.1	54.2
9.4	6.8	98	68.6	0	6.8	1.4	5	2.1	19	176.3	68.7	107.6	61.7	1.5	0	5	0.73	0.9	2.2	62.9
9.6	7.3	156	70.6	0	7.3	2.1	5	2.2	19.6	180.2	70.6	109.6	65.1	2.2	0	5	0.77	0.9	2.3	66.5
9.8	7.7	67	72.5	0	7.7	0.9	6	2	18.6	183.9	72.6	111.3	67.7	0.9	0	6	0.67	0.9	2	70.1
10	8	67	74.5	0	8	0.8	6	1.9	18.6	187.6	74.6	113.1	69.2	0.9	0	6	0.66	0.9	2	72.2

In situ data					Estimations															
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	2.2	44	5	5.20E-07	8	31	35	36	32	40	0	0	0	0.3	0	149	-0.1	0	0	20
0.6	2	93	4	7.40E-08	8	28	0	0	0	52	14	142	2.8	0.3	13.1	166	0	1.6	1.5	20
0.8	2.5	107	4	1.40E-07	10	35	0	0	46	58	14	178	3.6	0.3	16.4	174	0	1.7	1.6	20
1	2.2	111	4	7.50E-08	9	31	0	0	0	57	14	156	3.1	0.3	14.4	173	0	1.6	1.4	20
1.2	1.8	111	3	3.10E-08	8	25	0	0	0	54	14	127	2.5	0.3	11.7	169	0	1.5	1.1	20
1.4	2.4	93	4	1.60E-07	9	33	0	0	43	54	14	170	3.4	0.3	15.7	169	0	1.7	1.8	20
1.6	2.9	71	5	6.30E-07	10	40	41	37	41	51	0	0	0	0.3	0	165	-0.13	0	0	20
1.8	3	49	5	1.50E-06	9	42	41	37	36	45	0	0	0	0.3	0	156	-0.1	0	0	20
2	2.2	27	5	1.20E-06	7	30	35	36	27	34	0	0	0	0.3	0	140	-0.07	0	0	20
2.2	1.5	44	4	9.20E-08	6	20	0	0	0	37	14	104	2.1	0.3	9.6	143	0	1.4	2.3	20
2.4	1.4	31	4	1.30E-07	5	19	0	0	25	32	14	97	1.9	0.3	9	135	0	1.4	3.1	20
2.6	4.8	84	5	2.80E-06	14	64	48	39	51	64	0	0	0	0.3	0	183	-0.13	0	0	20
2.8	2.5	89	4	1.80E-07	10	34	0	0	44	55	14	175	3.3	0.3	15.3	170	0	1.7	1.9	20
3	1.9	76	4	7.40E-08	8	26	0	0	0	48	14	132	2.5	0.3	11.6	161	0	1.5	1.7	20
3.2	2.8	67	5	4.30E-07	10	38	37	36	42	52	0	0	0	0.3	0	168	-0.12	0	0	20
3.4	2.7	44	5	7.40E-07	9	37	35	36	36	45	0	0	0	0.3	0	159	-0.08	0	0	20
3.6	4.8	49	6	5.90E-06	13	56	45	38	45	56	0	0	0	0.3	0	174	-0.09	0	0	20
3.8	6.1	124	5	2.60E-06	18	83	51	39	66	83	0	0	0	0.3	0	206	-0.15	0	0	20
4	9.3	129	6	1.30E-05	24	95	61	41	76	95	0	0	0	0.3	0	219	-0.17	0	0	20
4.2	8.3	142	5	6.30E-06	23	96	58	40	77	96	0	0	0	0.3	0	220	-0.16	0	0	20
4.4	6.7	98	5	5.20E-06	19	80	51	39	64	80	0	0	0	0.3	0	203	-0.13	0	0	20
4.6	9.5	116	6	1.50E-05	24	94	60	41	75	94	0	0	0	0.3	0	218	-0.16	0	0	20
4.8	11.9	196	6	1.20E-05	31	122	66	42	97	122	0	0	0	0.3	0	245	-0.19	0	0	20
5	14.4	160	6	4.10E-05	33	119	71	42	95	119	0	0	0	0.3	0	243	-0.19	0	0	20
5.2	16.9	98	6	2.00E-04	34	105	76	43	84	105	0	0	0	0.3	0	231	-0.2	0	0	20
5.4	24	67	7	1.60E-03	39	103	88	44	82	103	0	0	0	0.3	0	230	-0.24	0	0	20
5.6	19.9	169	6	1.30E-04	41	134	81	44	107	134	0	0	0	0.3	0	257	-0.22	0	0	20
5.8	10.6	209	5	5.60E-06	29	125	60	41	100	125	0	0	0	0.3	0	248	-0.18	0	0	20
6	12.2	147	6	2.10E-05	30	114	64	41	91	114	0	0	0	0.3	0	238	-0.17	0	0	20
6.2	13.3	76	6	1.00E-04	28	93	65	42	74	93	0	0	0	0.3	0	219	-0.16	0	0	20
6.4	21.6	129	6	2.80E-04	42	126	82	44	101	126	0	0	0	0.3	0	250	-0.22	0	0	20
6.6	18.8	120	6	1.80E-04	38	119	77	43	95	119	0	0	0	0.3	0	244	-0.2	0	0	20
6.8	10.5	156	6	8.40E-06	28	115	58	40	92	115	0	0	0	0.3	0	239	-0.16	0	0	20
7	10.7	173	6	7.10E-06	29	121	58	40	96	121	0	0	0	0.3	0	245	-0.16	0	0	20
7.2	10.3	151	6	7.80E-06	28	114	56	40	91	114	0	0	0	0.3	0	239	-0.15	0	0	20
7.4	14.2	76	6	1.10E-04	30	97	65	41	78	97	0	0	0	0.3	0	224	-0.16	0	0	20
7.6	13.9	142	6	3.00E-05	33	121	64	41	97	121	0	0	0	0.3	0	246	-0.17	0	0	20
7.8	14.9	49	6	2.70E-04	29	87	66	42	70	87	0	0	0	0.3	0	215	-0.16	0	0	20
8	14.7	156	6	3.00E-05	35	128	65	42	102	128	0	0	0	0.3	0	252	-0.17	0	0	20
8.2	4.5	89	5	5.20E-07	16	61	36	36	64	80	0	0	0	0.3	0	205	-0.1	0	0	20
8.4	1.8	40	4	3.60E-08	8	23	0	0	0	49	14	118	1.2	0.3	5.5	166	0	1.2	2.9	20
8.6	2.2	49	4	6.00E-08	9	29	0	0	0	56	14	146	1.5	0.3	6.7	175	0	1.3	2.9	20
8.8	2.2	98	3	1.50E-08	11	29	0	0	0	71	14	146	1.4	0.3	6.6	194	0	1.3	1.5	20
9	4.8	18	6	8.20E-06	13	52	36	36	41	52	0	0	0	0.3	0	173	-0.02	0	0	20
9.2	5.8	58	5	3.00E-06	17	75	39	37	60	75	0	0	0	0.3	0	201	-0.07	0	0	20
9.4	6.8	98	5	2.20E-06	21	94	42	37	75	94	0	0	0	0.3	0	220	-0.1	0	0	20
9.6	7.3	156	5	1.10E-06	23	100	44	38	91	114	0	0	0	0.3	0	239	-0.13	0	0	20
9.8	7.7	67	6	7.40E-06	21	85	45	38	68	85	0	0	0	0.3	0	212	-0.09	0	0	20
10	8	67	6	8.50E-06	21	87	45	38	69	87	0	0	0	0.3	0	214	-0.09	0	0	20

CPT poste 2/2

In situ data									Basic output data											
Depth (m)	qc (MPa)	fs (kPa)	u (kPa)	Other	qt (MPa)	Rf (%)	SBT	Ic SBT	γ (kN/m ³)	σ_v (kPa)	u0 (kPa)	σ'_{vo} (kPa)	Qt1	Fr (%)	Bq	SBTn	n	Cn	Ic	Qtn
0.4	1.7	80	0	0	1.7	4.7	3	2.9	18.2	7.3	0	7.3	232.1	4.7	0	4	0.89	2	2.7	33.9
0.6	1.4	84	0	0	1.4	6	3	3.1	18.2	10.9	0	10.9	127	6	0	3	0.94	2	2.8	27.8
0.8	1.5	67	0	0	1.5	4.5	3	3	18	14.5	0	14.5	102.2	4.5	0	4	0.9	2	2.7	29.7
1	2.3	67	0	0	2.3	2.9	4	2.7	18.1	18.2	0	18.2	125.6	2.9	0	4	0.8	2	2.5	45.6
1.2	1.9	53	0	0	1.9	2.8	4	2.8	17.8	21.7	0	21.7	86.5	2.8	0	4	0.82	2	2.5	37.6
1.4	1.9	67	0	0	1.9	3.5	3	2.8	18.1	25.3	0	25.3	74	3.6	0	4	0.85	2	2.6	37.5
1.6	2.3	84	0	0	2.3	3.7	4	2.8	18.4	29	0	29	78.3	3.7	0	4	0.83	2	2.5	45.4
1.8	2.5	116	0	0	2.5	4.6	3	2.8	18.8	32.8	0	32.8	75.3	4.7	0	4	0.86	2	2.6	49.3
2	2.5	18	0	0	2.5	0.7	5	2.3	16.7	36.1	0	36.1	68.2	0.7	0	5	0.66	2	2.1	48.5
2.2	1.4	13	0	0	1.4	0.9	4	2.6	16.1	39.3	0	39.3	34.6	1	0	5	0.77	2	2.4	27.2
2.4	1	18	0	0	1	1.8	4	2.9	16.3	42.6	0	42.6	22.5	1.9	0	4	0.88	2	2.6	19.1
2.6	0.7	13	2	0	0.7	1.9	3	3	15.8	45.7	2	43.8	15	2	0	4	0.94	2	2.8	13.1
2.8	2.4	27	3.9	0	2.4	1.1	5	2.5	17.1	49.2	3.9	45.2	52	1.1	0	5	0.73	1.8	2.2	41.9
3	2.8	27	5.9	0	2.8	1	5	2.4	17.2	52.6	5.9	46.7	58.8	1	0	5	0.7	1.7	2.2	46.8
3.2	3.4	13	7.8	0	3.4	0.4	5	2.1	16.4	55.9	7.8	48	69.6	0.4	0	6	0.61	1.6	1.9	52.3
3.4	4.8	62	9.8	0	4.8	1.3	5	2.2	18.3	59.6	9.8	49.7	95.3	1.3	0	5	0.67	1.6	2.1	75.5
3.6	6.3	102	11.8	0	6.3	1.6	5	2.2	19	63.4	11.8	51.6	120.9	1.6	0	5	0.66	1.5	2.1	96.7
3.8	5.4	124	13.7	0	5.4	2.3	5	2.4	19.2	67.2	13.7	53.5	99.8	2.3	0	5	0.72	1.6	2.2	83.8
4	6.2	133	15.7	0	6.2	2.1	5	2.3	19.3	71.1	15.7	55.4	110.8	2.2	0	5	0.7	1.5	2.2	92.9
4.2	6.4	107	17.6	0	6.4	1.7	5	2.2	19.1	74.9	17.7	57.2	110.6	1.7	0	5	0.67	1.5	2.1	92.2
4.4	9	107	19.6	0	9	1.2	6	2	19.2	78.7	19.6	59.1	151	1.2	0	6	0.6	1.4	1.9	122.5
4.6	6.2	107	21.6	0	6.2	1.7	5	2.2	19.1	82.5	21.6	60.9	100.5	1.7	0	5	0.69	1.4	2.1	86.1
4.8	7.9	67	23.5	0	7.9	0.8	6	2	18.6	86.2	23.5	62.7	124.7	0.9	0	6	0.59	1.3	1.9	102.9
5	11	191	25.5	0	11	1.7	5	2	19.9	90.2	25.5	64.7	168.6	1.7	0	6	0.63	1.3	2	143.6
5.2	14.7	138	27.4	0	14.7	0.9	6	1.8	19.7	94.2	27.5	66.7	219	0.9	0	6	0.53	1.2	1.7	181.2
5.4	19.9	240	29.4	0	19.9	1.2	6	1.8	20.4	98.3	29.4	68.8	287.8	1.2	0	6	0.53	1.2	1.7	241.5
5.6	16.5	89	31.4	0	16.5	0.5	6	1.6	19.2	102.1	31.4	70.7	232	0.5	0	6	0.47	1.2	1.5	192.7
5.8	19.4	129	33.3	0	19.4	0.7	6	1.6	19.7	106	33.4	72.7	265.5	0.7	0	6	0.47	1.2	1.5	224.2
6	16	258	35.3	0	16	1.6	6	1.9	20.4	110.1	35.3	74.8	212.5	1.6	0	6	0.6	1.2	1.9	189
6.2	11.5	138	37.2	0	11.5	1.2	6	1.9	19.6	114.1	37.3	76.8	148.4	1.2	0	6	0.6	1.2	1.9	133.6
6.4	9.9	107	39.2	0	9.9	1.1	6	1.9	19.2	117.9	39.2	78.7	124.5	1.1	0	6	0.61	1.2	1.9	113.4
6.6	9.7	116	41.2	0	9.7	1.2	6	2	19.3	121.8	41.2	80.6	119	1.2	0	6	0.63	1.1	1.9	109.8
6.8	16.4	218	43.1	0	16.4	1.3	6	1.8	20.3	125.8	43.2	82.7	197	1.3	0	6	0.58	1.1	1.8	181.9
7	13.6	200	45.1	0	13.6	1.5	6	1.9	20.1	129.8	45.1	84.7	159.1	1.5	0	6	0.62	1.1	1.9	149.3
7.2	11.7	147	47	0	11.7	1.3	6	1.9	19.7	133.8	47.1	86.7	133.5	1.3	0	6	0.62	1.1	1.9	126.5
7.4	13.9	164	49	0	13.9	1.2	6	1.9	19.9	137.7	49	88.7	155.3	1.2	0	6	0.59	1.1	1.8	147.9
7.6	15.4	67	51	0	15.4	0.4	6	1.5	18.9	141.5	51	90.5	168.7	0.4	0	6	0.48	1	1.5	160.2
7.8	16.4	124	52.9	0	16.4	0.8	6	1.7	19.6	145.4	53	92.5	175.9	0.8	0	6	0.53	1	1.7	169.5
8	13.7	18	54.9	0	13.7	0.1	6	1.4	17.3	148.9	54.9	94	144.3	0.1	0	6	0.42	1	1.4	139.2
8.2	12.7	133	56.8	0	12.7	1	6	1.8	19.6	152.8	56.9	95.9	130.9	1.1	0	6	0.6	1	1.8	128.8
8.4	16.5	71	58.8	0	16.5	0.4	6	1.5	19	156.6	58.9	97.8	167.3	0.4	0	6	0.48	1	1.5	165.3
8.6	1.7	80	60.8	0	1.7	4.7	3	2.9	18.2	160.3	60.8	99.4	15.6	5.2	0	3	1	1	3	15.6
8.8	3.8	58	62.7	0	3.8	1.5	5	2.4	18.2	163.9	62.8	101.1	36.1	1.6	0	5	0.81	1	2.4	36.2
9	2.8	53	64.7	0	2.8	1.9	4	2.5	18	167.5	64.7	102.7	25.7	2	0	4	0.88	1	2.6	25.8
9.2	5.8	67	66.6	0	5.8	1.2	5	2.1	18.5	171.2	66.7	104.5	54	1.2	0	5	0.73	1	2.2	54.7
9.4	9.3	116	68.6	0	9.3	1.2	6	2	19.3	175	68.7	106.4	85.9	1.3	0	6	0.67	1	2	87.7
9.6	7.5	169	70.6	0	7.5	2.2	5	2.2	19.7	179	70.6	108.3	67.7	2.3	0	5	0.77	0.9	2.3	69
9.8	7	67	72.5	0	7	1	6	2	18.6	182.7	72.6	110.1	62.1	1	0	5	0.69	0.9	2.1	63.9
10	11.5	67	74.5	0	11.5	0.6	6	1.7	18.8	186.4	74.6	111.9	101.2	0.6	0	6	0.57	0.9	1.8	106.2

In situ data					Estimations															
Depth (m)	qc (MPa)	fs (kPa)	SBTn	Ksbt (m/s)	SPT N60 (blows/30cm)	Constrained Mod. (MPa)	Dr (%)	Friction angle (°)	Es (MPa)	Go (MPa)	Nkt	Su (kPa)	Su ratio	Kocr	OCR	Vs (m/s)	State parameter	Ko	Sensitivity	Peak phi (°)
0.4	1.7	80	4	5.10E-08	7	24	0	0	0	47	14	121	2.4	0.3	11.2	159	0	1.5	1.5	20
0.6	1.4	84	3	2.00E-08	7	19	0	0	0	46	14	99	2	0.3	9.2	158	0	1.4	1.2	20
0.8	1.5	67	4	4.20E-08	7	21	0	0	0	43	14	106	2.1	0.3	9.8	153	0	1.4	1.6	20
1	2.3	67	4	2.70E-07	8	32	0	0	38	47	14	163	3.3	0.3	15.1	160	0	1.7	2.4	20
1.2	1.9	53	4	1.90E-07	7	26	0	0	33	41	14	134	2.7	0.3	12.4	151	0	1.6	2.5	20
1.4	1.9	67	4	1.10E-07	8	26	0	0	36	45	14	134	2.7	0.3	12.4	157	0	1.6	2	20
1.6	2.3	84	4	1.60E-07	9	32	0	0	41	51	14	162	3.2	0.3	15	165	0	1.7	1.9	20
1.8	2.5	116	4	1.10E-07	10	35	0	0	47	59	14	176	3.5	0.3	16.3	176	0	1.7	1.5	20
2	2.5	18	5	4.00E-06	7	31	37	36	25	31	0	0	0	0.3	0	136	-0.05	0	0	20
2.2	1.4	13	5	5.90E-07	5	19	28	33	19	24	0	0	0	0.3	0	122	-0.02	0	0	20
2.4	1	18	4	7.90E-08	4	13	0	0	0	25	14	68	1.4	0.3	6.3	122	0	1.2	3.7	20
2.6	0.7	13	4	2.80E-08	3	9	0	0	0	20	14	47	0.9	0.3	4.3	113	0	1.1	3.5	20
2.8	2.4	27	5	1.30E-06	8	33	35	35	29	36	0	0	0	0.3	0	145	-0.06	0	0	20
3	2.8	27	5	2.30E-06	8	39	37	36	31	39	0	0	0	0.3	0	149	-0.06	0	0	20
3.2	3.4	13	6	1.20E-05	9	35	39	37	28	35	0	0	0	0.3	0	144	-0.04	0	0	20
3.4	4.8	62	5	4.30E-06	14	59	46	38	47	59	0	0	0	0.3	0	178	-0.11	0	0	20
3.6	6.3	102	5	4.80E-06	18	77	53	39	61	77	0	0	0	0.3	0	199	-0.14	0	0	20
3.8	5.4	124	5	1.70E-06	17	75	49	39	63	79	0	0	0	0.3	0	202	-0.15	0	0	20
4	6.2	133	5	2.40E-06	19	85	52	39	68	85	0	0	0	0.3	0	208	-0.15	0	0	20
4.2	6.4	107	5	4.00E-06	18	80	51	39	64	80	0	0	0	0.3	0	203	-0.14	0	0	20
4.4	9	107	6	1.50E-05	23	89	59	41	71	89	0	0	0	0.3	0	213	-0.15	0	0	20
4.6	6.2	107	5	3.20E-06	18	81	50	39	64	81	0	0	0	0.3	0	204	-0.14	0	0	20
4.8	7.9	67	6	2.00E-05	19	74	54	40	59	74	0	0	0	0.3	0	197	-0.12	0	0	20
5	11	191	6	9.50E-06	29	118	64	41	94	118	0	0	0	0.3	0	241	-0.18	0	0	20
5.2	14.7	138	6	6.00E-05	33	113	72	42	91	113	0	0	0	0.3	0	238	-0.19	0	0	20
5.4	19.9	240	6	6.20E-05	44	153	83	44	122	153	0	0	0	0.3	0	271	-0.23	0	0	20
5.6	16.5	89	6	2.10E-04	33	101	74	43	81	101	0	0	0	0.3	0	227	-0.19	0	0	20
5.8	19.4	129	6	2.00E-04	39	121	80	43	96	121	0	0	0	0.3	0	245	-0.22	0	0	20
6	16	258	6	1.90E-05	39	151	73	43	121	151	0	0	0	0.3	0	270	-0.21	0	0	20
6.2	11.5	138	6	1.80E-05	29	110	62	41	88	110	0	0	0	0.3	0	234	-0.16	0	0	20
6.4	9.9	107	6	1.60E-05	25	97	57	40	77	97	0	0	0	0.3	0	222	-0.14	0	0	20
6.6	9.7	116	6	1.20E-05	25	100	56	40	80	100	0	0	0	0.3	0	225	-0.14	0	0	20
6.8	16.4	218	6	2.80E-05	39	145	72	42	116	145	0	0	0	0.3	0	265	-0.2	0	0	20
7	13.6	200	6	1.50E-05	34	135	65	42	108	135	0	0	0	0.3	0	257	-0.18	0	0	20
7.2	11.7	147	6	1.50E-05	30	116	60	41	93	116	0	0	0	0.3	0	241	-0.16	0	0	20
7.4	13.9	164	6	2.30E-05	34	127	65	41	101	127	0	0	0	0.3	0	250	-0.17	0	0	20
7.6	15.4	67	6	2.00E-04	31	96	68	42	76	96	0	0	0	0.3	0	223	-0.17	0	0	20
7.8	16.4	124	6	8.10E-05	35	120	70	42	96	120	0	0	0	0.3	0	245	-0.18	0	0	20
8	13.7	18	6	6.10E-04	25	69	63	41	55	69	0	0	0	0.3	0	198	-0.15	0	0	20
8.2	12.7	133	6	2.20E-05	31	117	61	41	93	117	0	0	0	0.3	0	242	-0.16	0	0	20
8.4	16.5	71	6	2.20E-04	33	101	69	42	80	101	0	0	0	0.3	0	228	-0.17	0	0	20
8.6	1.7	80	3	7.50E-09	9	22	0	0	0	61	14	111	1.1	0.3	5.2	182	0	1.2	1.4	20
8.8	3.8	58	5	5.10E-07	13	51	32	35	54	67	0	0	0	0.3	0	190	-0.07	0	0	20
9	2.8	53	4	1.50E-07	11	37	0	0	49	61	14	189	1.8	0.3	8.5	182	0	1.4	3.5	20
9.2	5.8	67	5	2.40E-06	17	79	40	37	63	79	0	0	0	0.3	0	204	-0.08	0	0	20
9.4	9.3	116	6	6.40E-06	25	106	50	39	85	106	0	0	0	0.3	0	232	-0.12	0	0	20
9.6	7.5	169	5	1.10E-06	24	103	44	38	94	117	0	0	0	0.3	0	242	-0.14	0	0	20
9.8	7	67	5	4.90E-06	20	83	43	37	67	83	0	0	0	0.3	0	210	-0.08	0	0	20
10	11.5	67	6	4.20E-05	26	94	55	40	75	94	0	0	0	0.3	0	221	-0.12	0	0	20