

Location	Methane Concentration (% v/v)											
	2012		2013		2014		2015		2016		Overall	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
P2	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P3	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P4	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P5	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P6	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P15	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P16a	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P17a	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P18a	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P19	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P20	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P30aD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P30aM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P30aS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P33	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P34bD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P34bM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P34bS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P35	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P36bD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P36bM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P36bS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P37	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P45	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P47aD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P47aM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P47aS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P48	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P49	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P50aD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P50aM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P50aS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P51aD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P51aM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P51aS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P52a	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P60M	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P60S	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P61M	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P61S	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P62bD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P62bM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P62bS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P63bD	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P63bM	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
P63bS	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.0	0.00
Average	--	0.00	--	0.00	--	0.00	--	0.00	--	0.00	--	0.00
Annual Range	0.0 - 0.0	--	0.0 - 0.0	--	0.0 - 0.0	--	0.0 - 0.0	--	0.0 - 0.0	--	0.0 - 0.0	--

Note:

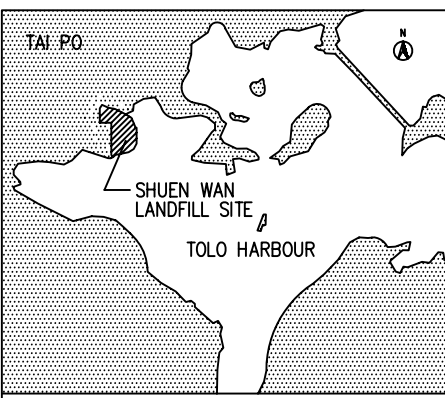
[1] Standard compliance level of methane is taken to be 1% v/v above the natural background. As stated in EPD's guidance note, concentration of greater than 1% v/v indicates less than adequate control of the gas at source, whilst the concentration greater than 5% v/v indicates significant migration. In accordance with Annual Environmental Audit Report for Shuen Wan Restored Landfill, the natural background for methane is 0.0% v/v.

Location	Carbon Dioxide Concentration (% v/v)											
	2012		2013		2014		2015		2016		Overall	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
GMP1M	0.0 - 2.3	0.65	0.0 - 0.7	0.24	0.3 - 1.0	0.44	0.2 - 1.0	0.62	0.0 - 0.7	0.26	0.0 - 2.3	0.44
GMP1S	0.0 - 1.4	0.29	0.0 - 1.0	0.17	0.0 - 1.1	0.38	0.1 - 0.6	0.42	0.0 - 1.2	0.31	0.0 - 1.4	0.31
GMP4M	0.0 - 1.0	0.32	0.0 - 0.7	0.33	0.0 - 0.8	0.29	0.0 - 1.2	0.43	0.0 - 1.0	0.33	0.0 - 1.2	0.34
GMP4S	0.0 - 1.0	0.37	0.0 - 1.0	0.27	0.0 - 0.7	0.33	0.0 - 0.8	0.25	0.0 - 0.4	0.07	0.0 - 1.0	0.26
GMP6M	0.0 - 1.2	0.32	0.0 - 0.9	0.40	0.0 - 0.7	0.22	0.0 - 1.1	0.41	0.0 - 1.1	0.38	0.0 - 1.2	0.35
GMP6S	0.0 - 0.6	0.13	0.0 - 0.7	0.22	0.0 - 0.8	0.26	0.0 - 1.0	0.32	0.0 - 0.6	0.17	0.0 - 1.0	0.22
GMP8M	0.0 - 1.0	0.39	0.0 - 1.1	0.64	0.0 - 0.8	0.20	0.0 - 1.3	0.36	0.0 - 0.6	0.13	0.0 - 1.3	0.34
GMP8S	0.0 - 1.2	0.34	0.0 - 0.2	0.09	0.0 - 1.4	0.36	0.0 - 0.5	0.21	0.0 - 0.4	0.14	0.0 - 1.4	0.23
GMP10M	0.0 - 2.1	0.94	0.0 - 1.2	0.67	0.0 - 1.2	0.66	0.4 - 1.5	0.88	0.0 - 0.8	0.43	0.0 - 2.1	0.72
GMP10S	0.0 - 1.2	0.33	0.0 - 1.3	0.47	0.0 - 0.9	0.43	0.0 - 1.0	0.35	0.0 - 1.0	0.22	0.0 - 1.3	0.36
GMP12M	0.0 - 2.0	0.44	0.0 - 1.0	0.46	0.0 - 1.0	0.44	0.0 - 0.7	0.33	0.0 - 0.9	0.43	0.0 - 2.0	0.42
GMP12S	0.0 - 1.2	0.29	0.0 - 0.6	0.19	0.0 - 1.4	0.50	0.0 - 0.9	0.26	0.0 - 1.1	0.20	0.0 - 1.4	0.29
GMP13D	0.0 - 1.2	0.35	0.0 - 1.1	0.40	0.0 - 0.9	0.52	0.3 - 1.0	0.74	0.0 - 1.1	0.52	0.0 - 1.2	0.51
GMP13M	0.0 - 0.7	0.13	0.0 - 1.0	0.24	0.0 - 0.4	0.14	0.0 - 1.0	0.34	0.0 - 1.4	0.38	0.0 - 1.4	0.25
GMP13S	0.0 - 1.4	0.25	0.0 - 1.3	0.26	0.0 - 0.7	0.40	0.2 - 0.8	0.46	0.0 - 0.7	0.13	0.0 - 1.4	0.30
GMP14D	0.0 - 1.7	0.39	0.0 - 1.0	0.46	0.0 - 1.1	0.55	0.0 - 0.8	0.19	0.0 - 1.4	0.39	0.0 - 1.7	0.40
GMP14M	0.0 - 1.0	0.33	0.0 - 1.2	0.38	0.0 - 1.5	0.27	0.0 - 0.0	0.00	0.0 - 0.7	0.19	0.0 - 1.5	0.23
GMP14S	0.0 - 1.4	0.32	0.0 - 0.3	0.03	0.0 - 0.7	0.09	0.0 - 0.6	0.13	0.0 - 3.1	0.42	0.0 - 3.1	0.20
GMP17D	0.0 - 1.3	0.47	0.0 - 1.3	0.54	0.3 - 1.2	0.59	0.4 - 1.3	0.83	0.0 - 0.7	0.38	0.0 - 1.3	0.56
GMP17M	0.0 - 1.3	0.52	0.1 - 1.2	0.58	0.0 - 1.2	0.26	0.0 - 0.8	0.38	0.0 - 0.8	0.29	0.0 - 1.3	0.41
GMP17S	0.0 - 0.4	0.07	0.0 - 1.2	0.23	0.1 - 0.8	0.39	0.0 - 1.2	0.47	0.0 - 0.1	0.02	0.0 - 1.2	0.24
GMP20M	0.0 - 1.3	0.33	0.0 - 1.4	0.75	0.0 - 1.6	0.37	0.0 - 1.2	0.45	0.0 - 1.2	0.44	0.0 - 1.6	0.47
GMP20S	0.0 - 1.2	0.31	0.0 - 1.9	0.70	0.0 - 1.2	0.29	0.0 - 1.4	0.49	0.0 - 1.0	0.27	0.0 - 1.9	0.41
GMP21M	0.0 - 1.0	0.42	0.0 - 2.1	0.45	0.0 - 0.7	0.37	0.0 - 0.6	0.15	0.0 - 0.7	0.14	0.0 - 2.1	0.31
GMP21S	0.0 - 1.2	0.46	0.0 - 1.8	0.42	0.0 - 1.3	0.45	0.0 - 0.6	0.22	0.0 - 1.1	0.33	0.0 - 1.8	0.38
GMP22M	0.0 - 1.4	0.40	0.0 - 1.7	0.27	0.0 - 1.1	0.34	0.0 - 0.7	0.15	0.0 - 0.8	0.19	0.0 - 1.7	0.27
GMP22S	0.0 - 1.3	0.33	0.0 - 1.6	0.18	0.0 - 0.8	0.18	0.0 - 0.6	0.13	0.0 - 0.3	0.08	0.0 - 1.6	0.18
GMP35D	0.0 - 7.4	1.17	0.0 - 2.4	0.57	0.0 - 0.6	0.15	0.0 - 0.8	0.22	0.0 - 1.3	0.28	0.0 - 7.4	0.48
GMP35M	0.0 - 2.5	0.68	0.0 - 1.2	0.62	0.0 - 1.4	0.62	0.1 - 1.2	0.58	0.0 - 0.7	0.14	0.0 - 2.5	0.53
GMP35S	0.0 - 1.1	0.33	0.0 - 1.3	0.33	0.0 - 1.3	0.34	0.0 - 1.4	0.23	0.0 - 1.0	0.28	0.0 - 1.4	0.30
GMP36D	0.0 - 2.8	0.81	0.0 - 0.7	0.42	0.3 - 1.2	0.72	0.2 - 1.7	0.85	0.0 - 0.7	0.24	0.0 - 2.8	0.61
GMP36M	0.0 - 2.2	0.86	0.0 - 1.1	0.59	0.0 - 1.3	0.59	0.0 - 1.2	0.38	0.0 - 0.7	0.20	0.0 - 2.2	0.52
GMP36S	0.0 - 1.2	0.40	0.0 - 1.3	0.33	0.0 - 1.6	0.38	0.0 - 1.3	0.31	0.0 - 0.2	0.04	0.0 - 1.6	0.29
GMP37D	0.0 - 1.2	0.40	0.0 - 1.0	0.32	0.0 - 1.2	0.50	0.0 - 1.0	0.43	0.0 - 0.7	0.22	0.0 - 1.2	0.37
GMP37M	0.0 - 0.8	0.22	0.3 - 1.1	0.78	0.1 - 1.3	0.49	0.1 - 1.4	0.75	0.0 - 1.1	0.33	0.0 - 1.4	0.51
GMP37S	0.0 - 1.0	0.25	0.0 - 1.3	0.24	0.0 - 1.3	0.60	0.0 - 1.3	0.36	0.0 - 0.7	0.12	0.0 - 1.3	0.31
GMP38M	0.0 - 2.1	0.63	0.0 - 2.1	0.54	0.2 - 1.3	0.73	0.1 - 1.4	0.91	0.0 - 1.0	0.22	0.0 - 2.1	0.61
GMP38S	0.0 - 1.9	0.48	0.0 - 1.7	0.66	0.0 - 1.3	0.43	0.0 - 1.1	0.46	0.0 - 1.0	0.22	0.0 - 1.9	0.45
GMP39M	0.0 - 2.8	0.59	0.0 - 1.6	0.58	0.0 - 0.7	0.24	0.0 - 0.8	0.30	0.0 - 0.5	0.14	0.0 - 2.8	0.37
GMP39S	0.0 - 2.6	0.50	0.0 - 1.5	0.46	0.0 - 1.3	0.37	0.0 - 1.2	0.20	0.0 - 0.7	0.27	0.0 - 2.6	0.36
GMP40M	0.0 - 1.4	0.42	0.0 - 1.4	0.59	0.0 - 0.9	0.18	0.0 - 1.3	0.44	0.0 - 0.7	0.20	0.0 - 1.4	0.37
GMP40S	0.0 - 3.7	0.81	0.0 - 1.3	0.35	0.0 - 0.9	0.26	0.0 - 1.4	0.73	0.0 - 0.8	0.21	0.0 - 3.7	0.47
GMP41M	0.0 - 2.8	0.68	0.0 - 1.1	0.29	0.0 - 1.1	0.41	0.0 - 1.5	0.41	0.0 - 0.7	0.22	0.0 - 2.8	0.40
GMP41S	0.0 - 1.3	0.36	0.0 - 0.4	0.04	0.0 - 1.2	0.43	0.0 - 0.9	0.38	0.0 - 0.3	0.10	0.0 - 1.3	0.26
GMP42D	0.0 - 2.9	0.73	0.0 - 0.7	0.31	0.0 - 1.7	0.61	0.0 - 2.0	0.87	0.0 - 1.0	0.30	0.0 - 2.9	0.56
GMP42M	0.0 - 1.9	0.55	0.0 - 1.0	0.33	0.0 - 1.5	0.77	0.0 - 1.7	0.50	0.0 - 0.4	0.17	0.0 - 1.9	0.46
GMP42S	0.0 - 1.3	0.28	0.0 - 0.6	0.12	0.0 - 1.0	0.40	0.0 - 1.1	0.42	0.0 - 0.2	0.04	0.0 - 1.3	0.25
GMP47D	0.0 - 1.1	0.30	0.0 - 0.7	0.25	0.0 - 1.2	0.38	0.2 - 1.0	0.58	0.0 - 0.7	0.18	0.0 - 1.2	0.34
GMP47M	0.0 - 0.7	0.23	0.0 - 1.0	0.33	0.0 - 0.9	0.23	0.0 - 1.3	0.53	0.0 - 0.7	0.25	0.0 - 1.3	0.31
GMP47S	0.0 - 1.1	0.26	0.0 - 0.7	0.14	0.0 - 1.4	0.45	0.1 - 0.9	0.36	0.0 - 1.6	0.37	0.0 - 1.6	0.32
GMP48D	0.0 - 1.8	0.45	0.0 - 1.0	0.31	0.0 - 1.4	0.58	0.2 - 1.3	0.74	0.0 - 0.4	0.12	0.0 - 1.8	0.44
GMP48M	0.0 - 0.7	0.24	0.0 - 1.1	0.22	0.0 - 0.6	0.24	0.0 - 0.6	0.14	0.0 - 0.9	0.19	0.0 - 1.1	0.21
GMP48S	0.0 - 0.7	0.09	0.0 - 0.7	0.14	0.0 - 0.9	0.28	0.0 - 0.8	0.17	0.0 - 0.2	0.10	0.0 - 0.9	0.16

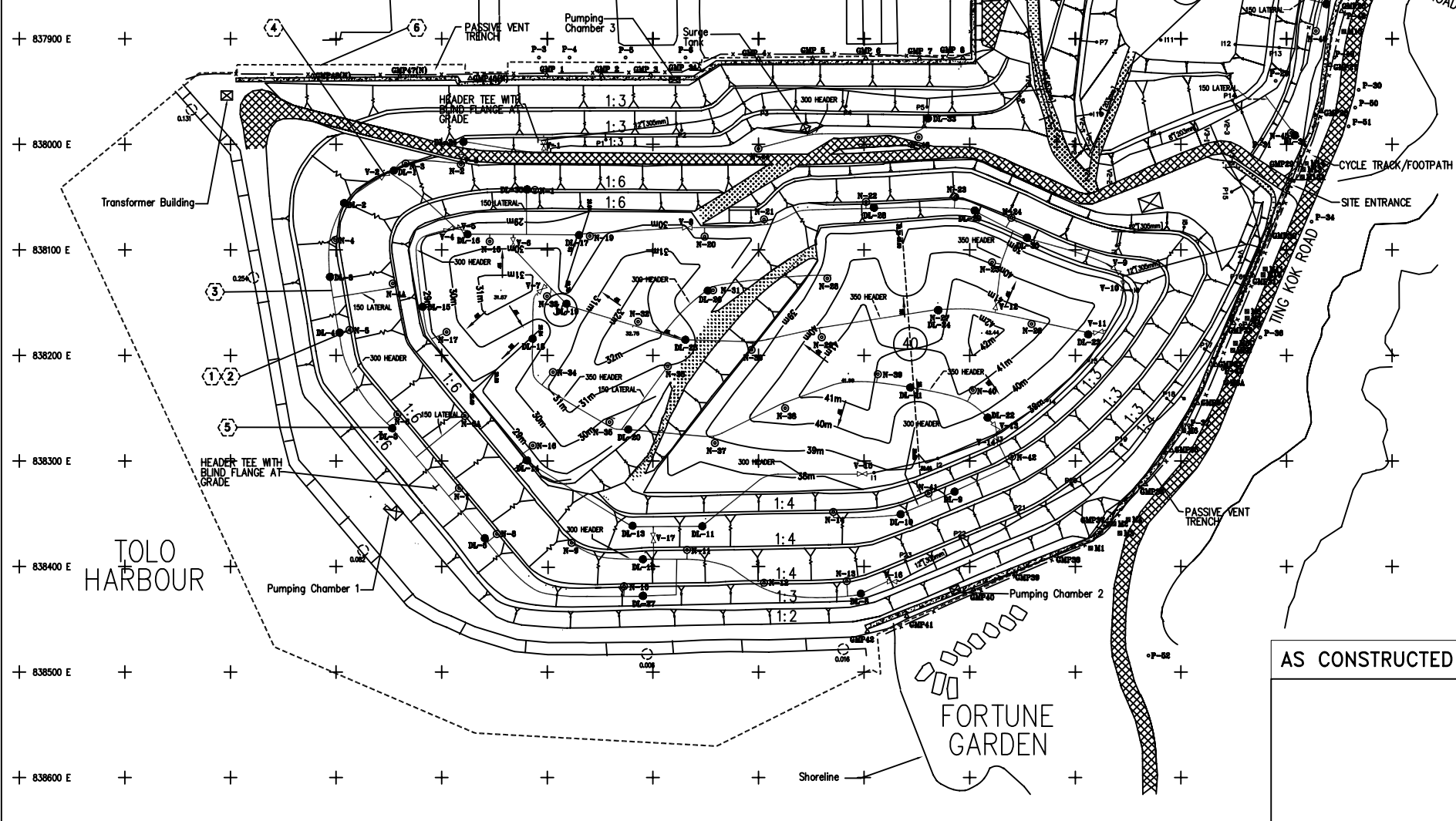
Location	Carbon Dioxide Concentration (% v/v)											
	2012		2013		2014		2015		2016		Overall	
	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average	Range	Average
P2	0.0 - 0.7	0.18	0.0 - 0.4	0.13	0.0 - 0.2	0.02	0.0 - 0.6	0.16	0.0 - 0.1	0.02	0.0 - 0.7	0.10
P3	0.0 - 0.7	0.17	0.0 - 0.4	0.07	0.0 - 0.4	0.15	0.0 - 1.0	0.16	0.0 - 0.4	0.13	0.0 - 1.0	0.14
P4	0.0 - 1.2	0.51	0.2 - 0.8	0.57	0.1 - 0.7	0.38	0.0 - 0.4	0.24	0.0 - 1.2	0.14	0.0 - 1.2	0.37
P5	0.0 - 1.2	0.56	0.0 - 1.0	0.67	0.0 - 1.2	0.43	0.0 - 0.8	0.25	0.0 - 0.7	0.13	0.0 - 1.2	0.41
P6	0.0 - 0.8	0.47	0.0 - 1.2	0.69	0.0 - 1.0	0.30	0.0 - 0.3	0.008	0.0 - 1.1	0.24	0.0 - 1.2	0.34
P15	0.0 - 1.4	0.21	0.0 - 1.0	0.17	0.0 - 0.6	0.07	0.0 - 0.7	0.17	0.0 - 0.4	0.05	0.0 - 1.4	0.13
P16a	0.0 - 1.1	0.57	0.4 - 1.3	0.93	0.7 - 1.2	0.86	0.0 - 1.3	0.60	0.0 - 1.0	0.34	0.0 - 1.3	0.66
P17a	0.4 - 1.2	0.93	0.4 - 1.3	0.95	0.4 - 1.2	0.96	0.0 - 1.4	0.86	0.0 - 1.2	0.40	0.0 - 1.4	0.82
P18a	0.2 - 1.4	0.82	0.2 - 1.8	0.96	0.4 - 1.2	0.78	0.0 - 1.2	0.73	0.0 - 1.2	0.30	0.0 - 1.8	0.72
P19	0.0 - 1.4	0.48	0.0 - 1.3	0.40	0.0 - 1.2	0.60	0.0 - 0.8	0.30	0.0 - 1.0	0.26	0.0 - 1.4	0.41
P20	0.0 - 0.0	0.00	0.0 - 0.4	0.03	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.3	0.04	0.0 - 0.4	0.01
P30aD	0.0 - 1.1	0.46	0.2 - 1.8	0.91	0.2 - 1.3	0.87	0.0 - 1.8	1.03	0.0 - 1.2	0.43	0.0 - 1.8	0.74
P30aM	0.2 - 1.8	1.08	0.7 - 3.0	1.41	0.7 - 2.1	1.24	0.0 - 1.3	0.92	0.0 - 1.3	0.59	0.0 - 3.0	1.05
P30aS	0.0 - 3.2	1.25	0.8 - 3.4	2.23	0.0 - 3.0	1.08	0.0 - 1.0	0.21	0.0 - 0.3	0.06	0.0 - 3.4	0.97
P33	0.0 - 0.7	0.18	0.0 - 0.4	0.13	0.2 - 0.7	0.38	0.0 - 0.6	0.40	0.0 - 0.5	0.21	0.0 - 0.7	0.26
P34bD	0.0 - 2.0	0.85	0.0 - 1.1	0.73	0.0 - 1.2	0.74	0.0 - 1.4	0.76	0.0 - 1.0	0.28	0.0 - 2.0	0.67
P34bM	0.0 - 1.8	1.12	0.2 - 1.2	0.86	0.2 - 1.2	0.78	0.0 - 1.3	0.59	0.0 - 1.3	0.51	0.0 - 1.8	0.77
P34bS	0.0 - 1.3	0.58	0.0 - 1.3	0.69	0.0 - 0.8	0.42	0.0 - 0.7	0.13	0.0 - 0.7	0.11	0.0 - 1.3	0.39
P35	0.0 - 0.6	0.20	0.0 - 0.5	0.34	0.0 - 1.3	0.44	0.0 - 2.8	0.64	0.0 - 0.7	0.30	0.0 - 2.8	0.38
P36bD	0.0 - 1.1	0.48	0.0 - 1.3	0.58	0.0 - 1.2	0.67	0.0 - 1.0	0.38	0.0 - 1.0	0.28	0.0 - 1.3	0.48
P36bM	0.0 - 1.1	0.43	0.2 - 1.0	0.52	0.3 - 2.0	0.64	0.0 - 0.7	0.31	0.1 - 0.7	0.40	0.0 - 2.0	0.46
P36bS	0.0 - 1.0	0.42	0.0 - 0.9	0.48	0.0 - 0.8	0.29	0.0 - 0.7	0.15	0.0 - 0.7	0.32	0.0 - 1.0	0.33
P37	0.0 - 1.3	0.47	0.0 - 0.6	0.30	0.0 - 0.8	0.43	0.0 - 1.0	0.29	0.0 - 0.8	0.37	0.0 - 1.3	0.37
P45	0.0 - 0.2	0.03	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.3	0.004	0.0 - 0.0	0.00	0.0 - 0.3	0.01
P47aD	0.0 - 1.5	0.79	0.0 - 1.7	0.75	0.2 - 1.7	0.93	0.0 - 1.4	0.63	0.0 - 0.6	0.23	0.0 - 1.7	0.67
P47aM	0.0 - 1.4	0.62	0.2 - 1.1	0.67	0.4 - 1.0	0.63	0.2 - 1.0	0.48	0.0 - 0.7	0.28	0.0 - 1.4	0.54
P47aS	0.0 - 0.7	0.13	0.0 - 0.8	0.15	0.0 - 0.7	0.15	0.0 - 1.2	0.12	0.0 - 1.6	0.15	0.0 - 1.6	0.14
P48	0.0 - 0.3	0.04	0.0 - 0.2	0.03	0.0 - 0.4	0.11	0.0 - 0.0	0.00	0.0 - 0.6	0.08	0.0 - 0.6	0.05
P49	0.0 - 0.0	0.00	0.0 - 0.4	0.05	0.0 - 0.2	0.03	0.0 - 0.0	0.00	0.0 - 0.3	0.03	0.0 - 0.4	0.02
P50aD	0.0 - 2.1	1.03	0.0 - 1.7	0.79	0.0 - 1.3	0.93	0.6 - 1.3	0.96	0.0 - 1.0	0.43	0.0 - 2.1	0.83
P50aM	0.2 - 2.1	1.02	0.2 - 2.1	1.11	0.1 - 1.2	0.72	0.0 - 1.0	0.61	0.0 - 1.0	0.38	0.0 - 2.1	0.77
P50aS	0.0 - 3.0	0.93	0.0 - 2.0	0.81	0.0 - 1.3	0.67	0.0 - 1.5	0.47	0.0 - 0.4	0.13	0.0 - 3.0	0.60
P51aD	0.0 - 2.0	0.89	0.0 - 1.2	0.76	0.3 - 1.1	0.73	0.3 - 1.4	0.78	0.0 - 0.6	0.13	0.0 - 2.0	0.66
P51aM	0.0 - 1.5	0.68	0.0 - 1.7	0.93	0.2 - 1.5	0.90	0.0 - 1.3	0.79	0.0 - 0.5	0.23	0.0 - 1.7	0.71
P51aS	0.0 - 1.8	0.81	0.0 - 1.0	0.52	0.0 - 1.4	0.78	0.0 - 1.2	0.48	0.0 - 6.9	0.73	0.0 - 6.9	0.66
P52a	0.0 - 0.4	0.03	0.0 - 0.4	0.03	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 0.2	0.02	0.0 - 0.4	0.02
P60M	0.0 - 1.1	0.27	0.0 - 0.3	0.04	0.0 - 0.2	0.05	0.0 - 0.0	0.00	0.0 - 3.0	0.27	0.0 - 3.0	0.13
P60S	0.0 - 0.7	0.09	0.0 - 0.4	0.09	0.0 - 0.0	0.00	0.0 - 0.0	0.00	0.0 - 1.3	0.11	0.0 - 1.3	0.06
P61M	0.0 - 0.8	0.21	0.0 - 0.3	0.03	0.0 - 1.1	0.09	0.0 - 0.0	0.00	0.0 - 1.8	0.15	0.0 - 1.8	0.10
P61S	0.0 - 1.2	0.18	0.0 - 0.4	0.05	0.0 - 0.3	0.06	0.0 - 0.0	0.00	0.0 - 1.6	0.13	0.0 - 1.6	0.08
P62bD	0.0 - 1.0	0.26	0.0 - 1.0	0.28	0.0 - 0.7	0.29	0.0 - 1.0	0.50	0.0 - 0.5	0.14	0.0 - 1.0	0.29
P62bM	0.0 - 1.4	0.41	0.0 - 1.1	0.39	0.0 - 0.9	0.35	0.0 - 0.8	0.40	0.0 - 0.6	0.20	0.0 - 1.4	0.35
P62bS	0.0 - 1.0	0.12	0.0 - 0.4	0.09	0.0 - 0.4	0.17	0.0 - 0.4	0.006	0.0 - 1.7	0.14	0.0 - 1.7	0.11
P63bD	0.0 - 1.3	0.23	0.0 - 1.2	0.37	0.0 - 0.3	0.08	0.0 - 1.0	0.18	0.0 - 0.8	0.13	0.0 - 1.3	0.20
P63bM	0.0 - 1.2	0.35	0.0 - 1.0	0.37	0.0 - 0.7	0.23	0.0 - 0.7	0.21	0.0 - 0.4	0.16	0.0 - 1.2	0.26
P63bS	0.0 - 1.0	0.16	0.0 - 1.1	0.16	0.0 - 1.0	0.29	0.0 - 1.1	0.13	0.0 - 0.2	0.04	0.0 - 1.1	0.16
Average	--	0.45	--	0.44	--	0.42	--	0.39	--	0.23	--	0.39
Annual Range	0.0 - 7.4	--	0.0 - 3.4	--	0.0 - 3.0	--	0.0 - 2.8	--	0.0 - 6.9	--	0.0 - 7.4	--

Note:

[1] Standard compliance level of carbon dioxide is taken to be 1.5% v/v above the natural background. As stated in EPD's guidance note, concentration of greater than 1.5% v/v indicates less than adequate control of the gas at source, whilst the concentration greater than 5% v/v indicates significant migration. In accordance with Annual Environmental Audit Report for Shuen Wan Restored Landfill, the natural background for methane is 7.1% v/v.



KEY PLAN
(SCALE = 1 : 5000)



LEGEND:

- SITE BOUNDARY
- PROPOSED GAS COLLECTION HEADER
- x-x- SITE FENCE
- ===== EXISTING PAVED ROAD
- ⊕ EXISTING GAS EXTRACTION WELL
- ▽ PROPOSED HEADER VALVE
- △ GMP22 EXISTING ON-SITE GAS MONITORING PROBE
- P-1 EXISTING OFF-SITE GAS MONITORING PROBE
- △ GMP40(D) PROPOSED ON-SITE GAS MONITORING PROBE
- ≡ M1 SERVICE VOID
- ⊗ AS-BUILT GAS EXTRACTION WELL
- ⊙ DL-1 AS-BUILT DRIPLEG

- NOTE:**
- BOTH THE EXISTING AND PROPOSED LANDFILL GAS EXTRACTION SYSTEMS ARE SHOWN.
 - EXTRACTION WELLS TO BE CONNECTED TO HEADER LINES BY 150 LATERALS.
 - NON-CONNECTED HEADER ENDS TO BE FITTED WITH ELLS AND STUB ENDS AT GRADE.
 - FINAL EXTRACTION WELL, CONDENSATE DRIPLEG AND VALVE LOCATIONS, AS WELL AS HEADER AND LATERAL LAYOUT, TO BE DETERMINED BASED ON FIELD CONDITIONS ENCOUNTERED.
 - LOCATIONS OF MONITORING PROBES AND SERVICE VOIDS ARE APPROXIMATE.
 - TYPICAL DETAILS (1) THROUGH (6) ON CONSTRUCTION DRAWINGS SWLR/DD/03/02 AND SWLR/DD/03/03.

B	WELLFIELD EXPANSION/WELL AND DRIPLEG ELIMINATION/DRIPLEG RELOCATION/PIPE PLAN/PIPE DIMENSION/KEY PLAN/GAS MONITORING PROBE	21/7/97	JL
A	HEADER LAYOUT/WELL LOCATIONS/VALVE ADDITION	20/4/97	JL
REV.	DESCRIPTION	DATE	DESIGNED BY
01	01	01	01

ENVIRONMENTAL PROTECTION DEPARTMENT
HONG KONG GOVERNMENT

SHUEN WAN LANDFILL RESTORATION
DETAIL DESIGN
CONTRACT EP/SP/27/95

LANDFILL GAS MANAGEMENT PLAN

W.A.S. NO. 23501

AS CONSTRUCTED

DESIGNED BY WEC/JL	<p>Hong Kong Landfill Restoration Group Limited</p>
CHECKED BY JL	
APPROVED FOR ISSUE WEC/JL	
SCALE 1 : 2000	DRG. NO. SWLR/DD/03/01
DATE OF ISSUE 10 FEB 97	© COPYRIGHT RESERVED 版權所有