

Annex G3

Landfill Gas Monitoring Results

Table G3.1 Landfill Gas Monitoring Results at Perimeter LFG Monitoring Wells

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
LFG1	2.51	0.0	0.7	15.6
LFG2	2.80	0.0	0.8	18.0
LFG3	2.61	0.0	3.2	15.1
LFG4	2.50	0.0	0.0	16.9
LFG5	2.66	0.0	0.9	15.3
LFG6	2.25	0.0	0.1	20.1
LFG7	2.98	0.0	0.0	18.0
LFG8	2.71	0.0	0.1	20.4
LFG9	4.20	0.0	0.3	10.2
LFG10	2.12	0.0	0.2	7.6
LFG11	3.00	0.0	0.2	4.6
LFG12	2.36	0.0	0.0	20.3
LFG13	2.28	0.4	0.0	19.7
LFG14	4.18	0.0	0.1	17.4
LFG15	2.38	0.0	0.6	15.6
LFG16	2.94	0.0	0.2	20.3
LFG17	4.45	0.0	0.1	19.7
LFG18	2.28	0.0	0.1	20.4
LFG19	3.00	0.0	0.0	6.9
LFG20	3.40	0.0	0.0	18.1
LFG21	5.38	0.0	0.9	11.7
LFG22	4.53	0.0	1.2	11.5
LFG23	12.49	0.0	0.1	20.0
LFG24	5.76	0.0	0.0	20.0
GP1	Probe bent	0.0	7.5	0.6
GP2 (shallow)	Probe bent	0.0	1.2	16.9
GP2 (deep)	Probe bent	0.0	0.4	19.1
GP3 (shallow)	Probe bent	0.0	0.1	19.7
GP3 (deep)	Probe bent	0.0	0.0	19.7
GP4 (shallow)	Probe bent	0.0	0.5	19.5
GP4 (deep)	Probe bent	0.0	0.2	19.4
GP5 (shallow)	Probe bent	0.0	0.2	19.3
GP5 (deep)	37.55	0.0	0.2	19.5
GP6	31.15	0.0	4.8	14.5
GP7	36.06	0.0	0.2	19.5
GP12	2.15	0.0	0.1	20.8
GP15	1.81	0.0	0.1	20.9
P7	2.34	0.0	0.1	20.1
P8	2.76	0.0	0.1	20.3
P9	2.34	0.0	0.0	20.2

Table G3.2 Landfill Gas Monitoring Results at Service Voids, Utilities Pits and Manholes

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU01	0.0	0.0	20.0
UU02	0.0	0.0	20.0
UU03	0.0	0.0	20.1
UU04	0.0	0.0	20.1
UU05	0.0	0.0	20.0
UU06	0.0	0.0	20.0
UU07	0.0	0.0	20.1
UU08	0.0	0.0	20.0
UU09	0.1	0.1	20.0
UU10	0.1	0.1	20.1
UU11	0.1	0.1	20.2
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.1	0.1	20.2
UU14	0.1	0.1	20.2
UU15	0.1	0.1	20.0
UU16	0.0	0.0	20.2
UU17	Voided due to latest site programme and on-going operation work		
UU18	0.0	0.1	20.1
UU19	0.0	0.0	20.1
UU20	0.0	0.0	20.1
UU21	0.0	0.0	20.1
UU22	0.0	0.0	20.1
UU23	0.0	0.0	20.1
UU24	0.0	0.0	20.1
UU25	0.0	0.0	20.1
UU26	0.0	0.0	20.1
UU27	0.0	0.0	20.1
UU28	0.0	0.0	20.0

Table G3.3 Landfill Gas Bulk Gas Sampling Monitoring Results

Parameters	LFG1	LFG8
Methane (% (v/v))	<0.020	<0.020
Carbon Dioxide (% (v/v))	0.549	0.066
Oxygen (% (v/v))	16.1	20.0
Nitrogen (% (v/v))	81.3	77.5
Carbon Monoxide (% (v/v))	<0.020	<0.020
Hydrogen (% (v/v))	<0.020	<0.020
Ethane (ppmv)	<1.0	<1.0
Propane (ppmv)	<1.0	<1.0
Butane (ppmv)	<1.0	<1.0

Table G3.4 Flammable Gas Surface Emission Monitoring Results

Time	GPS	Weather	Temperature	Wind	Wind	Monitoring	
	Coordinates	Condition	(°C)	Direction	Speed	Results	
	Latitude (N)	Longitude (E)		(Deg)	(m/s)	(ppm)	
13:54	22°16'30"	114°16'36"	Cloudy	26.9	004	2.2	6
14:20	22°16'28"	114°16'26"	Cloudy	28.3	174	1.2	6