

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	3.16	0.0	0.1	19.6
LFG2	3.05	0.0	0.7	16.6
LFG3	3.19	0.0	0.0	20.1
LFG4	2.82	0.0	0.3	8.0
LFG5	2.9	0.0	0.2	3.3
LFG6	3.13	1.8	2.1	0.2
LFG7	3.29	0.0	0.0	18.8
LFG8	3.34	8.9	0.0	3.2
LFG9	3.22	1.5	0.0	13.5
LFG10	3.05	2.9	0.1	0.2
LFG11	3.61	0.8	0.0	18.7
LFG12	3.24	0.0	0.0	19.8
LFG13	3.05	0.0	0.0	19.7
LFG14	2.71	2.4	0.0	13.0
LFG15	2.86	4.1	0.0	12.3
LFG16	3.26	0.0	0.0	19.7
LFG17	2.83	15.9	0.1	0.2
LFG18	4.41	0.0	0.0	20.8
LFG19	5.02	0.0	0.0	19.9
LFG20	4.89	0.0	0.0	19.9
LFG21	4.78	0.0	0.0	20.1
LFG22	4.39	0.0	0.0	19.7
LFG23	12.9	0.0	3.0	16.2
LFG24	6.13	0.0	1.0	18.2
GP1	Probe bent	0.0	0.1	20.3
GP2 (shallow)	Probe bent	0.0	0.1	20.2
GP2 (deep)	Probe bent	0.0	0.0	20.2
GP3 (shallow)	Probe bent	0.0	2.1	15.2
GP3 (deep)	Probe bent	0.0	0.1	20.1
GP4 (shallow)	Probe bent	0.0	0.1	20.1
GP4 (deep)	Probe bent	0.0	0.4	19.4
GP5 (shallow)	Probe bent	0.0	3.8	14.9
GP5 (deep)	44.82	0.0	0.1	20.0
GP6	43.03	0.0	5.4	14.6
GP7	37.11	0.0	0.6	18.3
GP12	2.59	0.0	0.1	20.0
GP15	4.15	0.0	0.0	20.2
P7	3.08	0.0	0.0	20.1
P8	3.16	0.0	0.0	20.0
P9	3.14	0.0	0.0	20.4

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	21.0
UU02	0.0	0.0	21.0
UU03	0.1	0.0	20.4
UU04	0.0	0.0	21.0
UU05		Unmeasurable due to overflow of water	
UU06	0.0	0.0	21.1
UU07	0.1	0.0	21.1
UU08		Unmeasurable due to overflow of water	
UU09		Inaccessible due to on-going construction work	
UU10	0.0	0.0	21.1
UU11	0.0	0.1	21.1
UU12		Voided due to latest site programme and on-going operation work	
UU13	0.0	0.1	21.1
UU14	0.0	0.1	21.1
UU15	0.0	0.1	21.1
UU16	0.0	0.0	21.1
UU17		Voided due to latest site programme and on-going operation work	
UU18	0.0	0.1	21.0
UU19	0.1	0.0	21.2
UU20	0.1	0.0	20.9
UU21	0.0	0.0	20.9
UU22	0.0	0.1	20.8
UU23	0.0	0.1	20.7
UU24	0.0	0.1	21.0
UU25	0.0	0.1	21.1
UU26	0.0	0.1	21.1
UU27	0.0	0.1	20.5
UU28	0.0	0.1	21.0

Table G3.3 Landfill Gas Bulk Gas Sampling Monitoring Results

Parameters	LFG12	LFG24
Methane (% (v/v))	0.415	<0.020
Carbon Dioxide (% (v/v))	0.038	1.03
Oxygen (% (v/v))	19.9	19.6
Nitrogen (% (v/v))	78.7	79.0
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 Coordinates Latitude (N) Longitude (E)	Weather Condition	Temperature (°C)	Wind Direction (Deg)	Wind Speed (m/s)	Monitoring Results (ppm)	
10:55	22°16'33"	114°16'17"	Fine	26.4	040	4.5	3
11:12	22°16'16"	114°27'78"	Fine	27.5	300	2.7	6
11:28	22°16'15"	114°16'33"	Fine	25.8	317	3.1	12
11:36	22°16'14"	114°16'28"	Fine	26.9	275	2.5	8
11:50	22°16'23"	114°16'26"	Fine	29.3	309	1.1	8
11:58	22°16'30"	114°16'26"	Fine	28.5	316	1.1	21
12:13	22°16'37"	114°16'27"	Fine	29.7	313	1.5	15
12:30	22°16'37"	114°16'31"	Fine	27.2	305	0.6	12