



ANNEX G2

LANDFILL GAS MONITORING RESULTS

TABLE G2.1 LANDFILL GAS MONITORING RESULTS AT PERIMETER LFG MONITORING WELLS (JANUARY 2024)

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
LFG1	3.84	0.1	0.1	19.3
LFG2	3.05	0.1	0.4	19.7
LFG3	3.85	0.1	1.3	18.3
LFG4	3.92	0.0	0.2	18.3
LFG5	3.51	0.0	0.1	16.2
LFG6	3.43	0.0	0.2	19.7
LFG7	3.75	0.0	0.0	19.4
LFG8	3.96	0.0	0.2	16.9
LFG9	4.02	0.0	0.2	13.3
LFG10	4.22	0.0	0.2	9.2
LFG11	3.84	0.0	0.1	12.4
LFG12	3.97	0.0	0.0	17.8
LFG13	4.4	10.7	0.4	6.3
LFG14	5.35	0.0	0.1	18.6
LFG15	5.4	0.0	0.1	20.3
LFG16	4.37	0.0	0.1	20.4
LFG17	4.55	0.0	0.1	20.4
LFG18	4.44	0.0	0.8	18.2
LFG19	4.42	0.1	0.1	20.2
LFG20	3.74	0.0	0.3	19.7
LFG21	5.96	0.0	0.1	20.4
LFG22	7.35	0.0	0.1	20.3
LFG23	14.52	0.0	2.5	17.5
LFG24	26.02	0.0	0.1	20.4
GP1	Probe Bent	0.0	6.6	12.9
GP2 (shallow)	Probe Bent	0.0	0.7	19.6
GP2 (deep)	Probe Bent	0.0	0.4	19.9
GP3 (shallow)	Probe Bent	0.0	0.1	20.3
GP3 (deep)	Probe Bent	0.1	0.2	20.3
GP4 (shallow)	Probe Bent	0.0	0.4	20.1
GP4 (deep)	Probe Bent	0.0	0.1	20.4
GP5 (shallow)	Probe Bent	0.1	0.1	20.4
GP5 (deep)	13.47	0.0	0.1	20.4
GP6	12.84	0.0	0.1	20.4

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
GP7	2.55	0.0	0.1	20.4
GP12	2.52	0.1	0.0	20.3
GP15	3.89	0.1	0.0	20.1
P7	3.37	0.1	0.2	20.1
P8	3.02	0.1	0.1	20.3
P9	3.06	0.1	0.1	20.2

**TABLE G2.2 LANDFILL GAS MONITORING RESULTS AT PERIMETER LFG MONITORING WELLS
(FEBRUARY 2024)**

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
LFG1	3.72	0.0	0.2	19.8
LFG2	3.94	0.0	0.5	19.5
LFG3	4.12	0.0	1.5	19.3
LFG4	4.05	0.0	0.1	20.6
LFG5	3.67	0.0	0.3	12.5
LFG6	4.22	0.0	0.5	19.0
LFG7	3.97	0.0	0.1	19.8
LFG8	3.45	0.0	0.1	20.7
LFG9	4.13	0.0	0.4	12.2
LFG10	4.29	0.0	0.3	9.2
LFG11	3.94	0.0	0.2	12.3
LFG12	4.07	0.0	0.1	18.8
LFG13	4.39	12.0	0.5	5.0
LFG14	5.21	0.0	0.3	12.3
LFG15	5.26	0.9	1.5	9.8
LFG16	4.67	0.0	0.1	20.1
LFG17	3.12	0.0	0.2	20.6
LFG18	4.27	0.0	0.7	18.4
LFG19	4.26	0.0	0.2	19.2
LFG20	4.07	0.0	0.7	19.3
LFG21	6.04	0.0	0.6	19.1
LFG22	7.48	0.0	0.1	20.8
LFG23	14.37	0.0	1.8	18.3
LFG24	26.30	0.0	0.1	20.7
GP1	Probe Bent	0.0	0.3	20.4
GP2 (shallow)	Probe Bent	0.0	1.4	16.9
GP2 (deep)	Probe Bent	0.0	0.1	20.7
GP3 (shallow)	Probe Bent	0.0	0.1	20.8
GP3 (deep)	Probe Bent	0.0	0.5	20.2
GP4 (shallow)	Probe Bent	0.0	0.3	20.3
GP4 (deep)	Probe Bent	0.0	0.1	20.7
GP5 (shallow)	Probe Bent	0.0	0.1	20.7
GP5 (deep)	13.66	0.0	0.1	20.7
GP6	11.4	0.0	0.2	20.7

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
GP7	2.42	0.0	0.1	20.7
GP12	2.59	0.0	0.2	20.9
GP15	3.84	0.0	0.1	20.9
P7	3.28	0.0	0.1	20.9
P8	3.15	0.0	0.1	21.0
P9	3.18	0.0	0.1	20.9

TABLE G2.3 LANDFILL GAS MONITORING RESULTS AT PERIMETER LFG MONITORING WELLS (MARCH 2024)

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
LFG1	2.37	0.3	0.2	19.5
LFG2	2.31	0.4	0.4	19.6
LFG3	2.21	0.3	1.1	18.8
LFG4	2.06	0.3	0.0	20.1
LFG5	2.59	0.3	0.2	12.2
LFG6	2.11	0.3	0.3	19.1
LFG7	2.32	0.2	0.0	18.5
LFG8	2.16	0.2	0.0	20.7
LFG9	2.32	0.2	0.4	14.8
LFG10	1.76	0.2	0.1	13.9
LFG11	1.95	0.2	0.1	11.6
LFG12	1.94	0.2	0.0	20.4
LFG13	2.03	10.2	0.8	5.4
LFG14	2.07	0.1	0.1	19.9
LFG15	2.19	0.1	0.6	18.1
LFG16	2.23	0.1	0.1	20.4
LFG17	2.36	0.1	0.1	20.1
LFG18	2.29	0.1	0.6	17.8
LFG19	2.36	0.2	0.1	20.2
LFG20	2.38	0.1	0.2	20.1
LFG21	2.59	0.2	0.1	20.2
LFG22	2.45	0.1	0.1	20.5
LFG23	12.63	0.2	0.1	16.7
LFG24	5.76	0.2	0.1	20.5
GP1	Probe Bent	0.2	0.2	20.2
GP2 (shallow)	Probe Bent	0.2	1.7	15.7
GP2 (deep)	Probe Bent	0.2	0.1	20.3
GP3 (shallow)	Probe Bent	0.2	0.1	20.4
GP3 (deep)	Probe Bent	0.2	0.1	20.4
GP4 (shallow)	Probe Bent	0.2	0.3	20.3
GP4 (deep)	Probe Bent	0.2	0.1	20.4
GP5 (shallow)	Probe Bent	0.2	0.1	20.4
GP5 (deep)	37.97	0.2	0.1	20.4
GP6	36.16	0.2	0.1	20.5

Location	Water Level (mPD)	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
GP7	35.94	0.2	0.2	20.1
GP12	1.77	0.4	0.0	20.7
GP15	2.3	0.3	0.0	20.3
P7	2.2	0.3	0.1	20.4
P8	2.44	0.3	0.0	20.5
P9	2.22	0.3	0.0	20.4

TABLE G2.4 LANDFILL GAS MONITORING AT SERVICE VOIDS, UTILITIES PITS AND MANHOLE (JANUARY 2024)

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU01	0.1	0.0	20.3
UU02	0.1	0.0	20.2
UU03	0.0	0.1	20.2
UU04	0.0	0.0	20.3
UU05	0.0	0.0	20.4
UU06	0.0	0.0	20.5
UU07	0.0	0.0	20.4
UU08	0.0	0.0	20.4
UU09	0.0	0.0	20.4
UU10	0.0	0.0	20.3
UU11	0.0	0.0	20.4
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.0	0.0	20.4
UU14	0.0	0.0	20.4
UU15	0.0	0.0	20.4
UU16	0.0	0.0	20.4
UU17	Voided due to latest site programme and on-going operation work		
UU18	Voided due to latest site programme and on-going operation work		
UU19	0.0	0.0	20.4
UU20	0.0	0.0	20.4
UU21	0.0	0.0	20.4
UU22	0.0	0.0	20.4
UU23	0.0	0.0	20.3
UU24	0.0	0.0	20.4
UU25	0.0	0.0	20.3
UU26	0.0	0.0	20.4
UU27	0.0	0.0	20.4
UU28	0.0	0.0	20.4

TABLE G2.5 LANDFILL GAS MONITORING AT SERVICE VOIDS, UTILITIES PITS AND MANHOLE (FEBRUARY 2024)

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU01	0.0	0.1	20.5
UU02	0.0	0.1	20.5
UU03	0.0	0.1	20.4
UU04	0.0	0.1	20.4
UU05	0.0	0.1	20.3
UU06	0.0	0.1	20.3
UU07	0.0	0.1	20.4
UU08	0.0	0.1	20.3
UU09	0.0	0.1	20.2
UU10	0.0	0.1	20.2
UU11	0.0	0.1	20.2
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.0	0.1	20.1
UU14	0.0	0.1	20.1
UU15	0.0	0.1	20.3
UU16	0.0	0.1	20.2
UU17	Voided due to latest site programme and on-going operation work		
UU18	Voided due to latest site programme and on-going operation work		
UU19	0.0	0.1	20.3
UU20	0.0	0.1	20.1
UU21	0.0	0.1	20.1
UU22	0.0	0.1	20.1
UU23	0.0	0.1	20.1
UU24	0.0	0.1	20.2
UU25	0.0	0.1	20.2
UU26	0.0	0.1	20.2
UU27	0.0	0.1	20.1
UU28	0.0	0.0	20.4

TABLE G2.6 LANDFILL GAS MONITORING AT SERVICE VOIDS, UTILITIES PITS AND MANHOLE (MARCH 2024)

Location	Methane (% (v/v))	Carbon Dioxide (% (v/v))	Oxygen (% (v/v))
UU01	0.3	0.0	20.3
UU02	0.3	0.0	20.2
UU03	Voided due to latest site programme and on-going operation work		
UU04	0.2	0.0	20.5
UU05	0.2	0.0	20.7
UU06	0.2	0.0	20.7
UU07	0.2	0.0	20.5
UU08	0.2	0.0	20.7
UU09	0.1	0.0	20.2
UU10	0.1	0.0	20.2
UU11	0.1	0.0	20.3
UU12	Voided due to latest site programme and on-going operation work		
UU13	0.1	0.0	20.3
UU14	0.1	0.0	20.2
UU15	0.1	0.0	20.2
UU16	0.1	0.0	20.2
UU17	Voided due to latest site programme and on-going operation work		
UU18	Voided due to latest site programme and on-going operation work		
UU19	0.2	0.0	20.2
UU20	0.1	0.0	20.2
UU21	0.1	0.0	20.1
UU22	0.1	0.0	20.1
UU23	0.1	0.0	20.1
UU24	0.1	0.0	20.2
UU25	0.1	0.0	20.2
UU26	0.1	0.0	20.2
UU27	0.4	0.0	21.0
UU28	0.4	0.0	21.0

TABLE G2.7 LANDFILL GAS BULK GAS SAMPLING MONITORING RESULTS

Parameters	LFG2	LFG8
Methane (% (v/v))	<0.020	<0.020
Carbon Dioxide (% (v/v))	0.291	0.057
Oxygen (% (v/v))	19.5	20.1
Nitrogen (% (v/v))	78.3	78.2
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 G2.8 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)
15:17	22°16'43"	114°16'43"	Cloudy	23.5	83	1.5	27
15:21	22°16'32"	114°16'36"	Cloudy	24.1	14	0.1	13
15:25	22°16'26"	114°16'34"	Cloudy	24.2	8	2.0	25
15:50	22°16'30"	114°16'27"	Cloudy	25.0	196	0.5	15