

Stoney Hill Landfill Site  
 Perimeter Gas Monitoring Data, January to March 2021

Sample Point	Date	Methane (%v/v)	Carbon Dioxide (%v/v)	Oxygen (%v/v)	Balance Gas (%v/v)	Barometric Pressure (mbar)	Relative Pressure (mbar)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
M1	25/01/2021	14.5	18.3	5	62.2	992	-3.47	0	0
M1	05/02/2021	0.1	0.2	21.7	78	987	-0.62	0	0
M1	08/03/2021	15.1	21.9	1.5	61.5	1004	-2.1	0	0
M11	25/01/2021	0	0.1	21.8	78.1	991	-0.79	0	0
M11	05/02/2021	0	0.2	21.3	78.5	987	-0.5	0	0
M11	08/03/2021	0	6.2	13.4	80.4	1004	0.03	0	0
M13	25/01/2021	5.5	24.4	0.5	69.6	992	-10.01	1	0
M13	05/02/2021	6.6	24.7	0.4	68.3	988	-4.84	1	0
M13	08/03/2021	0.3	21.3	3	75.4	1004	2.17	0	0
M16	25/01/2021	0	11.7	14.8	73.5	992	-2.4	0	0
M16	05/02/2021	0	22.2	8.4	69.4	987	-1.04	0	0
M16	08/03/2021	0	20.7	11.6	67.7	1005	-0.05	0	0
M18	25/01/2021	0.2	5.5	4.1	90.2	992	-2.98	0	0
M18	05/02/2021	0	5.7	1.9	92.4	987	-0.36	0	0
M18	08/03/2021	0	6.4	4.3	89.3	1005	-0.15	0	0
M18D	25/01/2021	0	0.5	20.2	79.3	991	-1.28	0	0
M18D	05/02/2021	0	3.9	9	87.1	988	-0.38	0	0
M18D	08/03/2021	0	0.5	18.7	80.8	1004	0.19	0	0
M20	25/01/2021	0.5	0.7	20.6	78.2	991	-3.41	0	0
M20	05/02/2021	24.4	20.9	0.7	54	985	-0.5	0	0
M20	08/03/2021	35.5	25.5	2.2	36.8	1004	-0.14	1	6
M20D	25/01/2021	0	0.2	21.2	78.6	991	-0.74	0	0
M20D	05/02/2021	0.2	0.3	20.9	78.6	987	-0.24	0	0
M20D	08/03/2021	0.1	0.2	19.8	79.9	1004	-0.12	0	0
M22	08/03/2021	30.9	13.2	1.5	54.4	1004	-0.07	0	0
M22D	08/03/2021	22.2	20.1	7	50.7	1004	-0.19	0	0
M23	25/01/2021	34.6	37.1	1.2	27.1	991	-7.94	1	0
M23	05/02/2021	33.2	35.2	1.4	30.2	987	-1.8	1	0
M23	08/03/2021	32	35	1.2	31.8	1004	2.31	0	0
M23D	25/01/2021	27.7	31.5	4	36.8	991	-3.05	0	0
M23D	05/02/2021	24.8	27.9	5.8	41.5	987	-0.5	0	0
M23D	08/03/2021	20.2	23.1	8.2	48.5	1004	-0.05	0	0
M24	25/01/2021	0	8.3	12.5	79.2	991	-41.57	0	0
M24	05/02/2021	0.1	6.3	14.6	79	986	-61.24	0	0
M24	08/03/2021	0.1	4.1	16.2	79.6	1003	0.02	0	0
M24D	25/01/2021	36.8	32.3	0.5	30.4	992	-2.28	1	2
M24D	05/02/2021	36.7	32.6	0.7	30	987	-0.92	1	1
M24D	08/03/2021	8.5	13.7	9.4	68.4	1004	1.11	0	0
M32	25/01/2021	65.5	31.4	0.9	2.2	991	0.33	1	0
M32	05/02/2021	66.4	31.7	0.5	1.4	987	0.07	1	0
M32	08/03/2021	64.4	31.5	1.8	2.3	1004	0.22	0	9
M32D	25/01/2021	40.4	28.5	0.7	30.4	991	-8.39	1	0
M32D	05/02/2021	39.8	27.7	1.3	31.2	987	-4.79	1	0
M32D	08/03/2021	17.5	22.5	3.2	56.8	1004	-0.73	0	0
M5	08/03/2021	0	6	15.9	78.1	1003	-0.12	0	0
M6	25/01/2021	6.4	8.9	18.3	66.4	991	-1.28	0	0
M6	05/02/2021	12.4	15.8	14.9	56.9	987	-0.39	1	0
M6	08/03/2021	10.1	11.5	14.7	63.7	1003	-0.2	0	0
M6D	25/01/2021	3.8	44.3	1.2	50.7	991	-2.77	1	0
M6D	05/02/2021	0.6	4.1	19.5	75.8	987	-0.33	0	0
M6D	08/03/2021	7.6	46.9	3	42.5	1004	5.65	0	0

M37 - Unable to monitor due to damaged tap  
 M22, M22D - Unable to monitor in January and February due to frozen taps

Stoney Hill Landfill Site  
Onsite Gas Monitoring Data, January to March 2021

Sample Point	Date	Methane (%v/v)	Carbon Dioxide (%v/v)	Oxygen (%v/v)	Balance Gas (%v/v)	Barometric Pressure (mbar)	Relative Pressure (mbar)	Carbon Monoxide (ppm)	Hydrogen Sulphide (ppm)
GEW1	05/01/2021	51.3	19.8	4.7	24.2	1003	-0.24	1	0
GEW1	02/02/2021	54.1	21.1	4.6	20.2	971	1.16	1	1
GEW1	03/03/2021	69.8	26.2	1.8	2.2	1006	-0.09	1	0
GEW2	05/01/2021	53.2	26.1	1.1	19.6	1002	1.25	3	0
GEW2	02/02/2021	44.3	21.5	2.3	31.9	971	4.77	1	0
GEW2	03/03/2021	60.3	24	2.1	13.6	1006	1.86	1	0
GEW3	05/01/2021	59.5	28.2	3	9.3	1002	0.56	2	1
GEW3	02/02/2021	69.3	32.3	0.4	0	971	6.47	2	14
GEW3	03/03/2021	69.7	30.3	1.4	0	1006	2.14	1	2
GEW4	05/01/2021	67	34.4	1.3	0	1002	-0.22	2	0
GEW4	02/02/2021	67.6	34.8	0.5	0	970	4.3	2	9
GEW4	03/03/2021	68.4	34	1.1	0	1005	2.07	1	4
GEW5	05/01/2021	68.2	31.7	1.3	0	1002	-0.75	0	0
GEW5	02/02/2021	69.5	32.7	0.6	0	971	3.92	1	9
GEW5	03/03/2021	72.2	30.5	1.4	0	1005	0.34	0	8
GEW6	05/01/2021	66	35.6	0.8	0	1003	-0.09	2	4
GEW6	02/02/2021	65.2	36.2	0.2	0	971	4.26	2	9
GEW6	03/03/2021	67.9	35.2	1	0	1006	2.02	2	13
IC107	05/01/2021	66	35	1.5	0	1003	-1.33	1	6
IC107	02/02/2021	66.5	35.5	0.6	0	971	-0.77	2	11
IC107	03/03/2021	68.8	34.3	1.5	0	1006	1.33	0	7
IC108	05/01/2021	31.3	22.7	2.6	43.4	1003	-1.22	2	1
IC108	02/02/2021	68.9	32.6	0.6	0	971	6.11	1	22
IC108	03/03/2021	68.4	34	1.2	0	1006	1.21	1	13
IC109	05/01/2021	53.1	27.4	5	14.5	1002	-1.11	1	5
IC109	02/02/2021	68.2	33.7	0.7	0	971	6.09	2	19
IC109	03/03/2021	66.4	36.8	1	0	1006	0.48	0	13
IC112	05/01/2021	58.7	29.8	3.7	7.8	1002	-0.79	1	3
IC112	02/02/2021	69.9	31.6	0.5	0	971	5.48	1	9
IC112	03/03/2021	71.6	32	0.2	0	1005	1.54	0	7
IC113	05/01/2021	66.8	34.5	1.2	0	1002	-0.77	1	1
IC113	02/02/2021	67.3	34.7	0.5	0	971	5.66	2	5
IC113	03/03/2021	69.2	33.7	1.1	0	1006	0.46	1	4
IC116	05/01/2021	66.5	35.5	0.7	0	1003	35.07	1	5
IC116	02/02/2021	66.7	35.5	0.4	0	971	48.52	2	10
IC116	03/03/2021	68.4	35.1	0.1	0	1006	28.6	0	6
IC127	05/01/2021	34.4	9.3	9.1	47.2	1002	-5.75	1	0
IC127	02/02/2021	36.9	9.1	8	46	971	-0.39	2	0
IC127	03/03/2021	43	12.4	7.2	37.4	1006	-0.22	1	0
IC128	05/01/2021	59.2	30.4	3	7.4	1002	-1.27	1	3
IC128	02/02/2021	67.6	34.6	0.5	0	971	6.11	2	13
IC128	03/03/2021	68.3	33.2	1.4	0	1006	1.21	0	11
IC129	05/01/2021	0.2	4.2	19.6	76	1003	-30.26	1	0
IC129	02/02/2021	0.5	4.6	19.1	75.8	971	0.67	1	0
IC129	03/03/2021	0.8	5.9	18.4	74.9	1006	3.59	1	0
IC130	05/01/2021	67.8	34.2	0.7	0	1003	-18.16	1	2
IC130	02/02/2021	68	34	0.5	0	971	2.34	2	12
IC130	03/03/2021	68.1	32.7	0.7	0	1006	0.99	1	3
IC133	05/01/2021	71.3	25.4	1.4	1.9	1003	-14.87	1	2
IC133	02/02/2021	73	28.9	0.6	0	972	4.57	1	18
IC133	03/03/2021	65	25.8	3.4	5.8	1007	2.9	1	2
IC14	05/01/2021	59	28.2	3.1	9.7	1002	0.75	2	0
IC14	02/02/2021	68.4	32.5	0.9	0	969	6.26	1	8
IC14	03/03/2021	68.6	31.1	1.9	0	1005	2.92	1	1
IC158	05/01/2021	31.9	11.4	10.5	46.2	1003	-1.64	2	0
IC158	02/02/2021	32.2	10.5	10.7	46.6	972	-0.33	1	0
IC158	03/03/2021	31.8	9.2	12	47	1006	0.1	1	0
IC159	05/01/2021	69.9	30.2	0.9	0	1002	0.12	1	1
IC159	02/02/2021	71.9	30.8	0.2	0	971	6.42	2	12
IC159	03/03/2021	72	30.6	1.2	0	1006	1.45	1	5
IC16	05/01/2021	14.6	15.9	2.8	66.7	1002	-1.22	1	0
IC16	02/02/2021	16.8	15.2	3.1	64.9	971	-0.41	1	0
IC16	03/03/2021	17.6	13.9	4.8	63.7	1005	-0.07	1	0
IC21	05/01/2021	60.4	24.5	3.2	11.9	1003	-16.45	1	45
IC21	02/02/2021	70.7	28.5	0.8	0	972	2.57	1	59
IC21	03/03/2021	62.3	27.7	2.6	7.4	1006	2.97	1	6
IC44	05/01/2021	61.4	31.1	3.1	4.4	1002	-0.03	1	3
IC44	02/02/2021	69.2	32.6	0.4	0	971	4.74	2	14
IC44	03/03/2021	69.3	32.8	3.6	0	1006	1.49	0	4
IC68	05/01/2021	34.2	2.6	8.5	54.7	1001	-0.7	0	2
IC68	02/02/2021	58.2	3.1	2.7	36	971	-0.43	0	10
IC68	03/03/2021	68.3	3.2	4.3	24.2	1005	-0.03	0	30
IC75	05/01/2021	25.9	14.3	13.7	46.1	1003	7.05	0	0
IC75	02/02/2021	65.7	28.8	1.9	3.6	971	-4.86	1	18

IC75	03/03/2021	70.3	34.7	0.3	0	1006	-60.28	1	13
IC77	05/01/2021	0.5	1.5	21.5	76.5	1003	-0.94	2	0
IC77	02/02/2021	1.1	1.9	20	77	971	-0.36	4	0
IC77	03/03/2021	0.9	1.9	19.9	77.3	1006	-1.06	5	0
IC85	05/01/2021	67.9	33	0.8	0	1003	-2.5	0	14
IC85	02/02/2021	68.5	33.7	0.4	0	971	5.87	2	28
IC85	03/03/2021	69.7	33	1.9	0	1005	1.5	0	20
IC87	05/01/2021	0.2	10.3	8.2	81.3	1003	-0.67	0	0
IC87	02/02/2021	0.3	9.2	8.8	81.7	971	-0.38	0	0
IC87	03/03/2021	0.4	7.6	13.2	78.8	1005	-4.8	0	0
IC88	05/01/2021	51.1	26.8	5.3	16.8	1003	-1.11	1	3
IC88	02/02/2021	70.3	31.6	0.6	0	971	6.18	2	15
IC88	03/03/2021	66.5	32.7	2.2	0	1005	1.67	1	9
IC94	05/01/2021	69.3	33.4	1	0	1003	-1.32	1	7
IC94	02/02/2021	68.8	33.2	0.6	0	972	-3.87	1	12
IC94	03/03/2021	70.2	33	0.9	0	1006	0.99	0	11
IC97	05/01/2021	58.8	27.6	4.2	9.4	1002	-0.8	1	3
IC97	02/02/2021	74.9	24.8	0.5	0	971	6.11	1	12
IC97	03/03/2021	68.8	27.6	2.6	1	1005	0.14	1	6
VP45	05/01/2021	69	19.2	1.7	10.1	1003	-0.6	1	93
VP45	02/02/2021	75.1	19.4	1	4.5	971	-0.31	2	119
VP45	03/03/2021	78.3	18.2	1.2	2.3	1006	-0.03	1	94
VP64	05/01/2021	68.3	34.6	1.4	0	1003	-1.22	1	9
VP64	02/02/2021	67.5	34.5	0.7	0	971	-4.38	2	21
VP64	03/03/2021	69.2	34.4	0.1	0	1006	1.52	1	15
W1	05/01/2021	63.1	32.3	1.9	2.7	1002	-0.09	2	0
W1	02/02/2021	68.6	33.5	0.5	0	971	5.01	2	9
W1	03/03/2021	70.5	30	1.2	0	1006	2.56	1	1
W11	05/01/2021	66.6	31.5	5.6	0	1002	3.47	0	0
W12	05/01/2021	57.3	29.3	3.7	9.7	1002	-3.27	1	2
W12	02/02/2021	67.8	33.8	0.7	0	971	6.16	2	7
W12	03/03/2021	67	31.9	1.9	0	1006	1.83	1	7
W13	05/01/2021	6.5	6.3	14.2	73	1002	-1.95	0	0
W13	02/02/2021	7.9	6.3	14	71.8	970	-0.05	1	0
W13	03/03/2021	8.3	5.8	15.1	70.8	1006	-0.05	1	0
W14	05/01/2021	62.9	36	1.5	0	1003	0.53	0	1
W14	02/02/2021	66.3	35.1	0.5	0	971	4.71	1	15
W14	03/03/2021	68	33.9	1.5	0	1006	1.26	0	3
W15	05/01/2021	0.1	1	21.8	77.1	1003	-2.4	2	0
W15	02/02/2021	0.3	1.2	21.3	77.2	971	7.46	2	0
W15	03/03/2021	0.4	1.4	21.1	77.1	1006	-1.14	2	0
W16	05/01/2021	67	33.8	1.4	0	1003	-14.03	1	1
W16	02/02/2021	68.6	33.3	0.6	0	971	6.18	1	10
W16	03/03/2021	69.5	33.8	0.2	0	1006	1.54	1	6
W17	05/01/2021	69.6	31.6	0.9	0	1003	3.85	1	4
W17	02/02/2021	70.5	31	0.4	0	972	2.46	2	11
W17	03/03/2021	71.3	31	1.2	0	1006	47.16	0	16
W18	05/01/2021	66.8	33.6	1.2	0	1003	-18.02	1	0
W18	02/02/2021	67.5	34.1	0.7	0	971	5.92	2	9
W18	03/03/2021	69.7	32.2	2	0	1002	1.59	1	4
W19	05/01/2021	69	33.2	1	0	1003	-0.74	1	18
W19	02/02/2021	69.2	32.9	0.6	0	971	6.14	2	20
W19	03/03/2021	69.7	33.3	1.7	0	1006	1.59	1	15
W2	05/01/2021	43.8	7.9	10	38.3	1002	-0.55	13	0
W2	02/02/2021	43.8	7.7	9.7	38.8	971	6.06	9	0
W2	03/03/2021	43.2	7.8	9.7	39.3	1006	4.41	13	0
W20	05/01/2021	69.7	31.8	1.9	0	1003	-0.41	1	6
W20	02/02/2021	69.4	33.3	0.4	0	971	5.85	1	19
W20	03/03/2021	70.4	31.1	4.3	0	1006	0.44	1	12
W22	05/01/2021	66.9	33	1.6	0	1003	-0.05	0	4
W22	02/02/2021	68.5	33.4	0.5	0	972	4.52	1	30
W22	03/03/2021	69.4	33.5	1.2	0	1006	1.5	0	1
W23	05/01/2021	57.7	29.1	4.4	8.8	1003	-0.48	1	4
W23	02/02/2021	49.2	27.5	5.5	17.8	972	-4.67	1	11
W23	03/03/2021	69.2	34.2	0.2	0	1006	-0.77	1	14
W3	05/01/2021	60.4	28.5	2.9	8.2	1002	-0.74	2	1
W3	02/02/2021	69.2	32.1	0.5	0	971	6.38	2	10
W3	03/03/2021	69.3	30.9	1.2	0	1005	1.3	1	0
W4	05/01/2021	68.9	30.6	0.5	0	1003	1.69	1	1
W4	02/02/2021	70.6	30.2	0.5	0	971	7.12	2	7
W4	03/03/2021	72	29.6	0.2	0	1006	2	1	1
W5	05/01/2021	50.9	19.7	5.4	24	1003	-1.56	1	0
W5	02/02/2021	56.2	22.1	3.6	18.1	972	5.36	2	0
W5	03/03/2021	74.2	25.7	1.7	0	1007	2.7	1	0
W6	05/01/2021	60	27.9	2.7	9.4	1002	-0.36	2	1
W6	02/02/2021	70.9	27.2	0.7	1.2	971	4.62	1	47
W6	03/03/2021	65.8	29.5	2.3	2.4	1006	0.51	1	2
W7	05/01/2021	4.1	2.7	2.3	90.9	1002	-8.95	0	0
W7	02/02/2021	2.3	2.8	1.2	93.7	971	5.44	1	1
W7	03/03/2021	0.9	3.2	1.1	94.8	1006	0	0	1
W8	05/01/2021	0.9	0.7	21.3	77.1	1002	-0.94	0	0
W8	02/02/2021	0.2	0.2	21.7	77.9	971	3.83	0	0
W9	05/01/2021	66.8	34.2	1.2	0	1002	0.87	2	0

	W9	02/02/2021	68.6	33.4	0.5	0	971	6.33	2	15
	W9	03/03/2021	69	32.8	0.5	0	1006	1.78	1	0
	W11 (Feb, Mar), W21 (Jan - Mar) - Unable to monitor due to damaged taps									

Stoney Hill Landfill Site  
Groundwater Analysis, January to March 2021

Sample Point	Date	Comments
M6	04/01/2021	Dry

Stoney Hill Landfill Site  
Surface Water Analysis, January to March 2021

Sample Point	POND A	POND B
Date	4/1/2021	4/1/2021
Aluminium (mg/l)	218	462
Ammoniacal Nitrogen (mg/l)	<0.2	<0.2
COD (total) (mg/l)	19	119
Copper (ug/l)	4.08	6.13
Dissolved Methane (mg/l)	0.0123	<0.001
pH (pH Units)	7.31	6.42
Solids Suspended (mg/l)	3.55	60.5
Sulphate (mg/l)	41.2	45.8
Sulphide (mg/l)	<0.01	<0.01
Visible Oil and Grease	Absent	Absent
Zinc (ug/l)	58.4	91.6

Stoney Hill Landfill Site  
Leachate Dips, January to March 2021

Sample Point	Date	Dip to Leachate (m)	Dip to Base (m)
GEW1	05/01/2021	12.72	17.10
GEW1	02/02/2021	11.56	
GEW1	03/03/2021	12.10	
GEW2	05/01/2021	10.75	14.35
GEW2	02/02/2021	10.31	
GEW2	03/03/2021	12.57	
GEW3	05/01/2021	13.4	17.16
GEW3	02/02/2021	12.59	
GEW3	03/03/2021	15.2	
GEW4	05/01/2021	9.69	10.94
GEW4	02/02/2021	8.58	
GEW4	03/03/2021	10.71	
GEW5	05/01/2021	9.25	13.44
GEW5	02/02/2021	7.65	
GEW5	03/03/2021	11.91	
GEW6	05/01/2021	8.94	11.15
GEW6	02/02/2021	7.47	
GEW6	03/03/2021	8.12	
W1	05/01/2021	5.81	8.5
W1	02/02/2021	5.56	
W1	03/03/2021	7.15	
W11	05/01/2021	12.82	13.57
W11	02/02/2021	12.91	
W11	03/03/2021	12.9	
W13	05/01/2021	4.64	5.32
W13	02/02/2021	4.9	
W13	03/03/2021	4.7	
W14	05/01/2021	4.1	5.32
W14	02/02/2021	4.99	
W14	03/03/2021	4.65	
W15	05/01/2021	1.9	4.05
W15	02/02/2021	2	
W15	03/03/2021	3.4	
W17	05/01/2021	3.4	5.38
W17	02/02/2021	3.07	
W17	03/03/2021	5.68	
W19	05/01/2021	6.36	7.55
W19	02/02/2021	5.5	
W19	03/03/2021	6.65	
W1A	05/01/2021	4.23	10.95
W1A	02/02/2021	3.65	
W1A	03/03/2021	4.3	

W2	05/01/2021	5.92	7.75
W2	02/02/2021	4.61	
W2	03/03/2021	5.45	
W20	05/01/2021	10.73	11.62
W20	02/02/2021	8.32	
W20	03/03/2021	10.74	
W23	05/01/2021	4.9	7.35
W23	02/02/2021	4.7	
W23	03/03/2021	4.38	
W4	05/01/2021	7.42	11.4
W4	02/02/2021	7.02	
W4	03/03/2021	12.57	
W5	05/01/2021	7.75	8.25
W5	02/02/2021	7.4	
W5	03/03/2021	7.7	
W8	05/01/2021	3.3	6.54
W8	02/02/2021	3.01	
W8	03/03/2021	3.9	