

Permit Number:		TP3835LV			Operator:		SI Green UK Limited			Test method & uncertainty				
Installation:		Cwmrhydyceirw Quarry			Tables S4.1 & S4.6 and Table 3a from the Updated Management Report dated January 2021					Portable infra-red analyser. Uncertainty is the accuracy of the meter.				
Schedule 4 - Emissions and monitoring														
Reporting of ground and landfill gases for the period from					Quarter 4	01 October - 31 December		2021						
Cwmrhydyceirw Quarry: Site Monitoring October 2021														
Borehole	Boreh on surf. (m)	Water Level (m)	Boreh Bottom (m)	Water Column (m)	CH4	CO2	CO	O2	Barom Press	Gas Pressure	Internal flow (l/h)	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)
Emission Limit Value					no limit set	no limit set	no limit set	no limit set						
L1C	0.49	11.40	11.53	0.13	43.5	15.9	8	5.4	1013	-0.02		12.63	46.50	35.59
L3	0.44	-	10.30	#VALUE!	Blocked							10.51	46.24	#VALUE!
L6	0.92	11.30	13.73	2.43	7.9	2.6	8	15.7	1012	0.07		14.78	46.83	36.45
L9B	1.15	10.27	11.34	1.07	17.8	4.9	3	14.9	1012	-0.02		12.42	46.51	37.39
L11	0.76	8.45	14.42	5.97	73.6	8.9	26	0.3	1012	0.05		16.33	47.12	39.43
L13	0.77	-	6.80	#VALUE!	Blocked							6.80	46.98	#VALUE!
L14	0.18	3.32	3.32	0.00	0.7	0.5	2	20.0	1013	0.12		3.55	28.78	25.64
L16	0.73	8.70	12.32	3.62	0.1	0.1	1	20.8	1012	0.00		12.05	46.90	38.93
L19	0.69	4.92	5.94	1.02	3.9	0.2	7	17.7	1012	0.10		6.02	47.18	42.95
L21	0.23	3.98	Blocked	#VALUE!	17.7	8.1	4	14.4	1013	0.05		13.00	43.81	40.06
L23	0.29	10.60	11.40	0.80	13.1	4.7	7	9.8	1012	0.09		11.95	45.85	35.54
L26	0.82	7.41	7.51	0.10	8.1	5.6	4	0.6	1013	0.07		7.55	43.33	36.74

GAS IN WASTE

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Cwmrhydyceirw Quarry: Site Monitoring October 2021														
Borehole	Boreh on surf. (m)	Water Level (m)	Boreh Bottom (m)	Water Column (m)	CH4	CO2	CO	O2	Barom Press	Gas Pressure	Internal flow (l/h)	Bottom Bor Lev	Ground Lev (mAOD)	Wat Lev (mAOD)
Emission Limit Value					1.0% vol.	no limit set	no limit set	no limit set						
LFG1	Decommissioned													
LFG2	0.45	7.70	24.79	17.09	0.0	1.9	0	18.5	1011	0.14	0.2	32.06	56.40	49.15
LFG3	0.45	20.39	23.78	3.39	0.0	0.1	0	21.0	1012	-0.24	0.3	33.27	56.60	36.66
LFG4	0.55	5.91	6.56	0.65	0.0	7.1	0	14.4	1011	0.09	0.2	52.89	58.90	53.54
LFG5	0.40	25.83	30.67	4.84	0.0	0.1	0	20.9	1011	0.19	0.2	31.66	61.93	36.50
LFG6	0.10	9.12	28.14	19.02	0.0	0.3	0	20.5	1010	0.00	0.2	34.37	62.41	53.39
LFG7BG	0.47	9.65	10.78	1.13	0.0	0.3	0	19.8	1010	0.02	0.1	51.76	62.07	52.89
LFG8	0.50	26.19	31.06	4.87	0.0	0.5	0	20.0	1010	0.07	0.2	31.76	62.32	36.63
LFG9	0.47	24.40	30.60	6.20	0.0	3.4	0	16.5	1010	0.00	0.1	32.08	62.21	38.28
LFG10	0.45	24.77	30.29	5.52	0.0	3.0	0	12.7	1010	0.00	0.2	32.55	62.39	38.07
LFG11	0.40	15.50	29.33	13.83	0.0	1.1	0	16.1	1010	-0.12	-0.6	35.14	64.07	48.97
LFG11A	0.50	20.24	29.92	9.68	0.0	0.1	0	20.8	1010	0.03	-0.5	33.72	63.14	43.40
LFG12BG	0.45	25.88	31.09	5.21	0.0	2.2	0	14.6	1010	-0.14	0.0	33.97	64.61	39.18
LFG13	0.50	16.79	32.08	15.29	0.0	0.4	0	20.4	1010	0.07	-0.6	33.63	65.21	48.92
LFG14	Decommissioned													
LFG15	Decommissioned													
LFG16BG	Decommissioned													
LFG17	0.41	27.13	39.78	12.65	0.0	0.1	0	20.6	1010	-0.12	0.1	28.07	67.44	40.72
LFG18	0.00	25.62	35.82	10.20	0.1	1.6	1	7.7	1009	0.00	0.0	33.84	69.66	44.04
LFG19	0.32	26.38	40.40	14.02	0.0	1.0	0	15.9	1009	0.00	-0.1	29.62	69.70	43.64
LFG20	0.33	26.47	40.03	13.56	0.1	1.5	0	16.9	1009	0.15	0.2	30.25	69.95	43.81
LFG21BG	0.60	6.65	44.17	37.52	0.0	0.1	0	21.2	1009	0.12	0.1	31.89	75.46	69.41
LFG22	0.45	25.99	40.43	14.44	0.0	0.7	0	20.5	1009	0.15	0.1	29.22	69.20	43.66
LFG23	0.30	32.80	46.18	13.38	0.0	1.5	0	18.2	1008	0.02	0.0	29.58	75.46	42.96
LFG24	0.33	6.08	42.94	36.86	0.0	6.4	0	10.0	1008	0.03	0.2	30.67	73.28	67.53
LFG25	0.31	8.36	41.74	33.38	0.0	2.1	0	9.4	1009	-2.33	-5.4	30.07	71.50	63.45
LFG26	0.30	5.38	29.33	23.95	0.0	2.0	0	16.0	1009	0.00	-0.4	40.48	69.51	64.43
LFG27	0.25	15.11	35.47	20.36	0.0	4.4	0	11.1	1009	0.00	-0.7	32.62	67.84	52.98
LFG28	Decommissioned													
LFG29BG	Decommissioned													
LFG30	Decommissioned													
LFG31	Decommissioned													
LFG32BG	Decommissioned													
LFG33	Decommissioned													
LFG34	Decommissioned													
LFG35	0.50	22.70	32.46	9.76	0.0	3.9	0	9.0	1010	0.07	0.1	29.64	61.60	39.40
LFG36	Decommissioned													
LFG37	Decommissioned													
LFG38	Decommissioned													
LFG39	0.53	11.61	15.29	3.68	0.0	0.8	0	19.3	1012	0.12	-2.6	29.81	44.57	33.49
LFG40	0.46	10.46	15.02	4.56	0.0	0.3	0	20.6	1012	0.38	0.2	30.51	45.07	35.07
LFG41	0.54	9.47	15.34	5.87	0.0	2.3	0	17.3	1013	-0.12	-1.2	30.26	45.06	36.13
LFG42	0.47	5.42	15.23	9.81	0.0	1.2	0	16.9	1013	-2.31	-2.5	30.89	45.65	40.70
LFG43	0.46	26.65	36.74	10.09	0.0	6.1	0	3.3	1010	0.38	0.2	30.34	66.62	40.43
LFG44	0.37	5.50	33.73	28.23	0.0	1.3	0	16.9	1010	-0.05	-2.5	31.40	64.76	59.63
LFG45	0.31	17.02	31.63	14.61	0.0	0.9	0	19.0	1010	-0.02	0.2	30.20	61.52	44.81
LFG46	0.43	21.17	33.14	11.97	0.0	9.1	0	7.2	1009	-0.17	0.2	29.83	62.54	41.80
LFG47	0.39	5.24	32.51	27.27	0.0	6.2	0	9.8	1009	-0.10	0.2	31.16	63.28	58.43
LFG48	0.03	9.97	21.89	11.92	0.0	0.2	0	20.1	1014	-0.10	0.1	30.26	52.12	42.18

GAS EXTERNAL WASTE

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- [1] The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values.
- [2] Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography.
- [3] For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given.
- [4] The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed ...BETH JONES Date...31/03/2022
(Authorised to sign as representative of Operator)