

TIER 2

ENVIRONMENTAL RISK ASSESSMENT

APPENDIX E

GAS MONITORING RESULTS

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Landfill Gas Monitoring Results - GW 1

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW 1	M1	11/07/2013	1	13:50	0.4	0.4	6.3	9.6	83.7	0	1	1012
			2	15:20	0.4	0.4	4.6	11.5	83.4	1	1	1012
	M2	16/07/2013	1	13:55	0.4	0.4	6.8	10.9	81.8	0	0	1009
			2	14:07	0.3	0.3	7.5	9.4	82.5	0	0	1009
	M3	18/07/2013	1	14:38	0.3	0.4	5.5	13.8	80.3	1	1	1012
			2	14:52	0.2	0.3	6.5	12	81.2	0	1	1012
	M4	22/07/2013	1	16:06	0.1	0.1	1.4	19	79.5	0	0	998
			2	16:25	0	0.1	1.4	19	79.4	1	0	998
	M5	26/07/2013	1	15:45	0	0.1	7	11	81.5	0	0	996
			2	15:59	0.1	0.1	7.4	10.6	81.7	1	0	995
	M6	29/07/2013	1	16:31	0.3	0.3	6.9	12.5	80.3	0	0	992
			2	16:46	0.2	0.2	7.1	12	80.6	1	0	991
	M7	02/08/2013	1	12:56	0.1	0.1	4.9	15.2	79.7	0	0	1006
			2	13:11	0.1	0.2	5.6	14.3	80	0	0	1006
	M8	06/08/2013	1	10:45	0.1	0.1	5.6	15.3	79	0	0	999
			2	10:59	0.1	0.1	7.9	10.4	81.3	0	0	999
	M9	09/08/2013	1	13:31	0.2	0.2	4.1	10.8	84.9	0	0	1004
			2	13:45	0.1	0.1	3.7	11.2	84.8	0	0	1004
	M10	12/08/2013	1	13:58	0.2	0.2	2	12.6	85	0	0	1002
			2	14:14	0.2	0.2	1.9	12.6	85.2	0	0	1002
	M11	16/08/2013	1	12:45	0.1	0.1	8.4	10.3	80.5	0	0	997
			2	12:59	0.1	0.1	8.8	10	80.4	0	0	997
	M12	21/08/2013	1	12:38	0.2	0.2	3	12	84.8	0	0	1002
			2	12:50	0.2	0.2	2.6	12.2	85	0	0	1002
	M13	23/08/2013	1	10:57	0.1	0.2	4.3	16.8	78.6	0	0	996
			2	11:12	0.1	0.2	5	16.1	78.7	0	0	996
	M14	26/08/2013	1	12:42	0.1	0.1	4	16.4	79.5	0	0	1006
			2	12:55	0.1	0.1	4.1	16.2	79.6	0	0	1006

Landfill Gas Monitoring Results - GW 2

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 2	M1	11/07/2013	1	13:41	2.7	2.7	6.3	0.7	90.2	4	1	1012
			2	15:17	2.9	2.9	6.3	0.8	90	4	0	1012
	M2	16/07/2013	1	13:52	3.2	3.2	6.7	0.6	89.4	0	0	1009
			2	14:04	2.8	2.8	6.7	0.6	89.8	2	0	1009
	M3	18/07/2013	1	14:34	2.6	2.6	6.9	0.7	89.6	2	0	1012
			2	14:50	2.5	2.5	6.9	0.5	90.1	4	0	1012
	M4	22/07/2013	1	16:01	2.2	2.2	9.1	0.8	87.9	1	0	998
			2	16:20	1.9	1.9	9.4	1.1	87.6	3	0	998
	M5	26/07/2013	1	15:41	2.4	2.4	7.9	0.4	89.2	2	0	995
			2	15:56	2.4	2.4	7.9	0.4	89.2	0	0	995
	M6	29/07/2013	1	16:34	2.7	2.7	7.1	0.7	89.5	2	0	992
			2	16:50	2.8	2.8	7.2	0.8	89.2	1	0	992
	M7	02/08/2013	1	12:50	3.2	3.2	6	3.6	87.1	0	0	1005
			2	13:07	3.1	3.2	6	0.2	90.6	0	0	1005
	M8	06/08/2013	1	10:41	3	3	6.5	0.2	90.2	0	0	999
			2	10:54	3	3	6.4	0.2	90.3	0	0	999
	M9	09/08/2013	1	13:34	1.9	1.9	6.7	0.7	90.7	0	0	1004
			2	13:48	1.7	1.7	6.6	1.3	90.1	0	0	1004
	M10	12/08/2013	1	13:55	2.4	2.5	6.6	0.4	90.5	0	0	1002
			2	14:10	2.3	2.4	6.5	0.4	90.7	0	0	1002
	M11	16/08/2013	1	12:42	3	3	6.2	0.5	90.2	0	0	997
			2	12:56	3	3	6.3	0.6	90	0	0	997
	M12	21/08/2013	1	12:33	1.9	1.9	5.7	2.7	89.7	0	0	1003
			2	12:47	1.7	1.7	5.4	3.4	89.4	0	0	1002
	M13	23/08/2013	1	10:51	3.8	3.8	6.2	0.1	89.8	0	0	996
			2	11:08	3.8	3.8	6.4	0	89.7	0	0	996
	M14	26/08/2013	1	12:45	3	3	6	4.7	86.1	0	0	1006
			2	12:58	3	3	6.1	0.2	90.7	0	0	1006

Landfill Gas Monitoring Results - GW 1

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW 1	M1	11/07/2013	1	13:50	0.4	0.4	6.3	9.6	83.7	0	1	1012
			2	15:20	0.4	0.4	4.6	11.5	83.4	1	1	1012
	M2	16/07/2013	1	13:55	0.4	0.4	6.8	10.9	81.8	0	0	1009
			2	14:07	0.3	0.3	7.5	9.4	82.5	0	0	1009
	M3	18/07/2013	1	14:38	0.3	0.4	5.5	13.8	80.3	1	1	1012
			2	14:52	0.2	0.3	6.5	12	81.2	0	1	1012
	M4	22/07/2013	1	16:06	0.1	0.1	1.4	19	79.5	0	0	998
			2	16:25	0	0.1	1.4	19	79.4	1	0	998
	M5	26/07/2013	1	15:45	0	0.1	7	11	81.5	0	0	996
			2	15:59	0.1	0.1	7.4	10.6	81.7	1	0	995
	M6	29/07/2013	1	16:31	0.3	0.3	6.9	12.5	80.3	0	0	992
			2	16:46	0.2	0.2	7.1	12	80.6	1	0	991
	M7	02/08/2013	1	12:56	0.1	0.1	4.9	15.2	79.7	0	0	1006
			2	13:11	0.1	0.2	5.6	14.3	80	0	0	1006
	M8	06/08/2013	1	10:45	0.1	0.1	5.6	15.3	79	0	0	999
			2	10:59	0.1	0.1	7.9	10.4	81.3	0	0	999
	M9	09/08/2013	1	13:31	0.2	0.2	4.1	10.8	84.9	0	0	1004
			2	13:45	0.1	0.1	3.7	11.2	84.8	0	0	1004
	M10	12/08/2013	1	13:58	0.2	0.2	2	12.6	85	0	0	1002
			2	14:14	0.2	0.2	1.9	12.6	85.2	0	0	1002
	M11	16/08/2013	1	12:45	0.1	0.1	8.4	10.3	80.5	0	0	997
			2	12:59	0.1	0.1	8.8	10	80.4	0	0	997
	M12	21/08/2013	1	12:38	0.2	0.2	3	12	84.8	0	0	1002
			2	12:50	0.2	0.2	2.6	12.2	85	0	0	1002
	M13	23/08/2013	1	10:57	0.1	0.2	4.3	16.8	78.6	0	0	996
			2	11:12	0.1	0.2	5	16.1	78.7	0	0	996
	M14	26/08/2013	1	12:42	0.1	0.1	4	16.4	79.5	0	0	1006
			2	12:55	0.1	0.1	4.1	16.2	79.6	0	0	1006

Landfill Gas Monitoring Results - GW 2

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW 2	M1	11/07/2013	1	13:41	2.7	2.7	6.3	0.7	90.2	4	1	1012
			2	15:17	2.9	2.9	6.3	0.8	90	4	0	1012
	M2	16/07/2013	1	13:52	3.2	3.2	6.7	0.6	89.4	0	0	1009
			2	14:04	2.8	2.8	6.7	0.6	89.8	2	0	1009
	M3	18/07/2013	1	14:34	2.6	2.6	6.9	0.7	89.6	2	0	1012
			2	14:50	2.5	2.5	6.9	0.5	90.1	4	0	1012
	M4	22/07/2013	1	16:01	2.2	2.2	9.1	0.8	87.9	1	0	998
			2	16:20	1.9	1.9	9.4	1.1	87.6	3	0	998
	M5	26/07/2013	1	15:41	2.4	2.4	7.9	0.4	89.2	2	0	995
			2	15:56	2.4	2.4	7.9	0.4	89.2	0	0	995
	M6	29/07/2013	1	16:34	2.7	2.7	7.1	0.7	89.5	2	0	992
			2	16:50	2.8	2.8	7.2	0.8	89.2	1	0	992
	M7	02/08/2013	1	12:50	3.2	3.2	6	3.6	87.1	0	0	1005
			2	13:07	3.1	3.2	6	0.2	90.6	0	0	1005
	M8	06/08/2013	1	10:41	3	3	6.5	0.2	90.2	0	0	999
			2	10:54	3	3	6.4	0.2	90.3	0	0	999
	M9	09/08/2013	1	13:34	1.9	1.9	6.7	0.7	90.7	0	0	1004
			2	13:48	1.7	1.7	6.6	1.3	90.1	0	0	1004
	M10	12/08/2013	1	13:55	2.4	2.5	6.6	0.4	90.5	0	0	1002
			2	14:10	2.3	2.4	6.5	0.4	90.7	0	0	1002
	M11	16/08/2013	1	12:42	3	3	6.2	0.5	90.2	0	0	997
			2	12:56	3	3	6.3	0.6	90	0	0	997
	M12	21/08/2013	1	12:33	1.9	1.9	5.7	2.7	89.7	0	0	1003
			2	12:47	1.7	1.7	5.4	3.4	89.4	0	0	1002
	M13	23/08/2013	1	10:51	3.8	3.8	6.2	0.1	89.8	0	0	996
			2	11:08	3.8	3.8	6.4	0	89.7	0	0	996
	M14	26/08/2013	1	12:45	3	3	6	4.7	86.1	0	0	1006
			2	12:58	3	3	6.1	0.2	90.7	0	0	1006

Landfill Gas Monitoring Results - GW 3

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW3	M1	11/07/2013	1	14:00	0.4	0.4	3.5	11.3	84.9	3	0	1012
			2	15:13	0.3	0.3	1.7	14.3	83.6	2	1	1012
	M2	16/07/2013	1	13:49	0.1	0.2	1.6	17.9	80.3	0	0	1009
			2	14:01	0.2	0.2	1.6	17.9	80.2	0	0	1009
	M3	18/07/2013	1	14:30	0.2	0.2	1.9	17.1	80.8	3	1	1013
			2	14:48	0.2	0.2	1.9	17	80.9	1	1	1012
	M4	22/07/2013	1	15:55	0.1	0.1	0.9	19.2	79.8	0	0	998
			2	16:14	0.1	0.1	1.2	18.9	79.7	2	0	998
	M5	26/07/2013	1	15:37	0	0.1	2.1	17.6	80.3	0	0	995
			2	15:53	0.1	0.1	1.7	18.3	79.8	0	0	995
	M6	29/07/2013	1	16:37	0.2	0.2	1.9	16.9	81	0	0	993
			2	16:53	0.1	0.2	1.9	17.9	80.1	0	0	992
	M7	02/08/2013	1	12:47	0.1	0.2	5.3	11.5	83	0	0	1005
			2	13:02	0.2	0.2	5.4	11.3	83.1	0	0	1005
	M8	06/08/2013	1	10:37	0.3	0.3	6.1	9.8	83.7	0	0	999
			2	10:51	0.2	0.2	4.5	13.3	82	0	0	999
	M9	09/08/2013	1	13:37	0.2	0.2	7.3	6.1	86.3	0	0	1004
			2	13:52	0.2	0.2	7.9	5.2	86.5	1	0	1004
	M10	12/08/2013	1	13:51	0.9	0.9	10.9	2.4	85.8	0	0	1002
			2	14:07	0.9	0.9	11.2	1.5	86.2	0	0	1004
	M11	16/08/2013	1	12:39	0.5	0.5	7.4	3.6	88.4	0	0	997
			2	12:53	0.5	0.5	7.6	3.2	88.6	0	0	997
	M12	21/08/2013	1	12:30	0.1	0.2	1.7	17.3	80.7	0	0	1003
			2	12:44	0.1	0.1	2.1	16.7	81.2	0	0	1002
	M13	23/08/2013	1	10:48	0.2	0.2	2.8	15.7	81.3	0	0	996
			2	11:03	0.1	0.1	2.6	16.2	81	0	0	996
	M14	26/08/2013	1	12:48	0.2	0.2	4.6	13	82.2	0	0	1006
			2	13:01	0.2	0.2	4.8	12.9	82	0	0	1006

Landfill Gas Monitoring Results - GW 4

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW 4	M1	11/07/2013	1	14:03	0.3	0.3	2	14.2	83.3	4	0	1012
			2	15:09	0.3	0.3	1.9	15	82.8	0	0	1012
	M2	16/07/2013	1	13:58	0.3	0.3	2.5	17.7	79.4	0	0	1009
			2	14:12	0.2	0.2	2.6	17.7	79.5	2	0	1009
	M3	18/07/2013	1	14:42	0.3	0.3	2.4	17.4	79.9	1	1	1012
			2	14:56	0.2	0.2	2.3	17.1	80.3	1	0	1012
	M4	22/07/2013	1	15:52	0.1	0.1	2.1	18.3	79.4	1	0	998
			2	16:10	0.1	0.1	2.1	18.5	79.3	1	0	998
	M5	26/07/2013	1	15:34	0	0.1	3.5	16.9	79.5	0	0	995
			2	15:49	0	0.1	3.4	17.2	79.3	1	0	995
	M6	29/07/2013	1	16:42	0.2	0.1	2.3	17.6	79.9	0	0	992
			2	16:57	0.2	0.2	2.4	17.9	79.5	0	0	992
	M7	02/08/2013	1	12:43	0	0.2	2.7	17.2	80	0	0	1005
			2	13:16	0.1	0.1	2.6	17.4	79.4	0	0	1005
	M8	06/08/2013	1	10:33	0.2	0.2	3	17.4	79.4	0	0	999
			2	10:48	0.1	0.1	3	17.2	79.7	0	0	999
	M9	09/08/2013	1	13:40	0.1	0.1	2.8	17.2	79.8	1	0	1004
			2	13:55	0.1	0.1	2.6	17.6	79.7	0	0	1004
	M10	12/08/2013	1	13:47	0.1	0.2	2	18.8	79	0	0	1004
			2	14:03	0.1	0.2	2	18.7	79.1	0	0	1004
	M11	16/08/2013	1	12:35	0.1	0.1	1.5	19	79.3	0	0	997
			2	12:49	0.1	0.1	1.6	19	79.2	0	0	997
	M12	21/08/2013	1	12:26	0.1	0.1	1.6	18.8	79.4	0	0	1003
			2	12:41	0.1	0.1	1.4	19.1	79.3	0	0	1003
	M13	23/08/2013	1	10:44	0.2	0.2	2.7	17.8	79.3	0	0	995
			2	11:27	0.1	0.1	3	17.4	79.4	0	0	996
	M14	26/08/2013	1	12:51	0.1	0.1	2.8	17.4	79.6	0	0	1006
			2	13:05	0.1	0.1	2.8	17.3	79.7	0	0	1006

Landfill Gas Monitoring Results - GW 5

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW5	M1	11/07/2013	1	14:08	0.3	0.3	0.2	15.9	83.4	0	0	1012
			2	15:03	0.3	0.3	0.4	16.4	82.8	0	1	1012
	M2	16/07/2013	1	13:40	0.2	0.2	2.4	16.2	81.2	0	0	1010
			2	14:21	0.1	0.1	2.9	15.4	81.5	0	0	1010
	M3	18/07/2013	1	14:23	0.1	0.2	0.8	19.3	79.7	0	0	1014
			2	15:00	0.2	0.2	0.4	17.2	82	1	0	1012
	M4	22/07/2013	1	15:43	0.1	0.1	1	19.2	79.6	0	0	1000
			2	16:31	0	0.1	0.9	19.6	79.4	1	0	999
	M5	26/07/2013	1	15:25	0.1	0.1	1.9	17.6	80.3	1	0	996
			2	16:04	0.1	0.1	2.5	16.9	80.5	0	0	996
	M6	29/07/2013	1	16:16	0.1	0.2	0.5	19.3	80.1	1	0	992
			2	17:01	0.2	0.2	0.7	18.2	80.9	0	0	991
	M7	02/08/2013	1	12:34	0.1	0.1	2.2	17.3	80.2	0	0	1006
			2	13:20	0.1	0.1	2.2	17.3	80.2	0	0	1006
	M8	06/08/2013	1	10:25	0.1	0.1	1.6	18.9	79.3	0	0	1000
			2	11:04	0.1	0.1	1.6	18.8	79.4	0	0	1000
	M9	09/08/2013	1	13:25	0.1	0.1	2.7	16.2	80.8	0	0	1006
			2	14:00	0.1	0.1	2	17.6	80.2	0	0	1006
	M10	12/08/2013	1	13:42	0.2	0.2	1.6	18.7	79.6	0	0	1004
			2	14:20	0.2	0.2	1.6	18.8	79.5	0	0	1004
	M11	16/08/2013	1	12:26	0.1	0.1	2.9	15.8	81.1	0	0	998
			2	13:04	0.1	0.1	3.3	15.1	81.4	0	0	998
	M12	21/08/2013	1	12:22	0.1	0.1	2.3	16.9	80.5	0	0	1004
			2	12:54	0.1	0.1	2.3	16.9	80.5	0	0	1004
	M13	23/08/2013	1	10:35	0.1	0.1	2	17.8	80	0	0	997
			2	11:30	0.1	0.1	1.8	18.4	79.6	0	0	997
	M14	26/08/2013	1	12:36	0.1	0.1	2	17.9	79.8	0	0	1007
			2	13:10	0.1	0.1	2.1	17.8	80	0	0	1007

Landfill Gas Monitoring Results - GW 6

Monitoring Well I.D	Monitoring Event	Monitoring Date	Reading	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	min	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
GW6	M1	11/07/2013	1	14:11	0.3	0.3	0.3	15.9	83.4	0	0	1012
			2	14:58	0.2	0.2	0.3	16.4	83	2	0	1012
	M2	16/07/2013	1	13:44	0.2	0.2	0.3	19.8	79.6	0	0	1010
			2	14:18	0.1	0.1	0.3	19.9	79.6	0	0	1010
	M3	18/07/2013	1	14:16	0.1	0.2	0.2	16.9	82.7	1	1	1013
			2	15:06	0.1	0.2	0.2	16.7	82.5	1	0	1012
	M4	22/07/2013	1	15:48	0.1	0.1	0.2	13.9	82.8	1	0	1000
			2	16:34	0	0	0.3	13.8	82.9	0	0	999
	M5	26/07/2013	1	15:29	0	0.1	0.8	19.4	79.7	0	0	996
			2	16:07	0	0.1	0.9	19.3	79.7	0	0	996
	M6	29/07/2013	1	16:24	0.1	0.2	0.2	18	79.7	0	0	992
			2	17:06	0.1	0.2	0.3	18.1	79.6	0	0	992
	M7	02/08/2013	1	12:38	0.1	0.1	1.3	16.9	81.6	0	0	1007
			2	13:24	0.1	0.2	1.3	16.9	81.7	0	0	1007
	M8	06/08/2013	1	10:28	0.1	0.1	0.8	19.3	79.7	0	0	1001
			2	11:07	0.1	0.1	0.7	19.3	79.8	0	0	999
	M9	09/08/2013	1	13:20	0.1	2	1.3	17.5	81	0	0	1006
			2	14:03	0.1	1	1.6	16.9	81.3	0	0	1006
	M10	12/08/2013	1	13:38	0.1	0.2	0.7	19.5	79.5	0	0	1004
			2	14:24	0.1	0.2	0.8	19.4	79.4	0	0	1004
	M11	16/08/2013	1	12:30	0.1	0.1	0.6	19.6	79.6	0	0	998
			2	13:08	0.1	0.1	0.6	19.5	79.5	0	0	998
	M12	21/08/2013	1	12:20	0.1	0.2	0.3	20	79.5	0	0	1004
			2	12:57	0.1	0.2	0.2	20.1	79.4	0	0	1004
	M13	23/08/2013	1	10:39	0.1	0.1	0.7	19.6	79.5	0	0	997
			2	11:34	0.1	0.2	0.8	19.6	79.4	0	0	997
	M14	26/08/2013	1	12:31	0.1	0.1	1.3	16.9	81.6	0	0	1007
			2	13:14	0	0.1	0.8	18.3	80.8	0	0	1007

TIER 2

ENVIRONMENTAL RISK ASSESSMENT

EXTENDED GAS MONITORING RESULTS AND GRAPHS

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Landfill Gas Extended Monitoring Results – GW 1

Monitoring Well I.D	Monitoring Date	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 1	10/10/13	15:15	00.2	00.2	3	18.5	78.3	0	0	1013
	10/10/13	15:16	00.1	00.2	2.6	18.8	78.3	0	0	1013
	10/10/13	15:17	00.1	00.2	2.3	19.1	78.3	0	0	1013
	10/10/13	15:18	00.1	00.2	2.2	19.4	78.3	0	0	1013
	10/10/13	15:19	00.1	00.2	2.2	19.4	78.2	1	0	1013
	10/10/13	15:20	00.1	00.2	2.2	19.4	78.2	0	0	1013
	10/10/13	15:21	00.1	00.2	2.2	19.3	78.3	0	0	1013
	10/10/13	15:22	00.1	00.2	2.5	19.1	78.2	0	0	1013
	10/10/13	15:23	00.1	00.2	2.2	19.4	78.1	0	0	1013
	10/10/13	15:24	00.1	00.2	2.0	19.6	78.2	0	0	1013
	10/10/13	15:25	00.1	00.2	2.3	19.4	78.1	0	0	1013
	10/10/13	15:26	00.1	00.2	2.4	19.4	78	0	0	1013
	10/10/13	15:27	00.1	00.2	2.8	19.1	77.9	0	0	1013
	10/10/13	15:28	00.1	00.2	2.7	19.2	78	0	0	1013
10/10/13	15:29	00.1	00.2	2.7	19.2	78	0	0	1013	

Landfill Gas Extended Monitoring Results – GW 2

Monitoring Well I.D	Monitoring Date	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 2	10/10/13	15:00	4.8	4.9	6.4	00.2	88.5	0	0	1014
	10/10/13	15:01	4.8	4.9	6.3	00.1	88.6	0	0	1014
	10/10/13	15:02	4.9	5.0	6.3	00.1	88.5	0	0	1014
	10/10/13	15:03	5.2	5.3	6.3	0	88.4	0	0	1014
	10/10/13	15:04	5.2	5.3	6.3	0	88.5	0	1	1014
	10/10/13	15:05	5.0	5.3	6.3	0	88.5	0	1	1014
	10/10/13	15:06	5.0	5.3	6.3	0	88.5	2	1	1014
	10/10/13	15:07	5.0	5.3	6.4	0	88.6	1	1	1014
	10/10/13	15:08	5.0	5.3	6.4	0	88.6	1	1	1014
	10/10/13	15:09	4.9	5.3	6.4	0	88.6	1	1	1014
	10/10/13	15:10	4.9	5.3	6.4	0	88.6	1	1	1014
	10/10/13	15:11	4.9	5.3	6.4	0	88.7	1	1	1014
	10/10/13	15:12	4.9	5.3	6.4	0	88.6	1	1	1014
	10/10/13	15:13	4.9	5.3	6.3	0	88.5	1	1	1014
10/10/13	15:14	4.9	5.3	6.4	0	88.6	1	1	1014	

Landfill Gas Extended Monitoring Results – GW3

Monitoring Well I.D	Monitoring Date	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 3	10/10/13	15:30	00.3	00.3	8.3	3.9	87.3	0	0	1012
	10/10/13	15:31	00.4	00.4	8.4	3.7	87.6	0	0	1012
	10/10/13	15:32	00.4	00.4	8.6	3.3	87.5	0	0	1012
	10/10/13	15:33	00.4	00.4	9.1	2.9	87.6	0	0	1012
	10/10/13	15:34	00.4	00.4	10.9	1.1	87.2	0	0	1012
	10/10/13	15:35	00.5	00.5	12.1	00.3	87	0	0	1012
	10/10/13	15:36	00.5	00.5	12.4	00.2	86.8	0	0	1012
	10/10/13	15:37	00.5	00.5	12.3	00.1	87	0	0	1012
	10/10/13	15:38	00.6	00.6	12.4	00.1	86.9	0	0	1012
	10/10/13	15:39	00.5	00.6	12.4	0	86.9	0	0	1012
	10/10/13	15:40	00.5	00.6	12.4	00.1	86.9	0	0	1012
	10/10/13	15:41	00.5	00.6	12.5	0	86.9	0	0	1012
	10/10/13	15:42	00.5	00.6	12.5	0	86.9	0	0	1012
	10/10/13	15:43	00.5	00.6	12.5	0	86.9	0	0	1012
10/10/13	15:44	00.5	00.6	12.5	0	86.9	0	0	1012	

Landfill Gas Extended Monitoring Results – GW 4

Monitoring Well I.D	Monitoring Date	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 4	10/10/13	15:46	00.1	00.2	1.7	19.4	78.7	0	0	1012
	10/10/13	15:47	00.1	00.2	1.7	19.4	78.8	0	0	1012
	10/10/13	15:48	00.1	00.2	1.6	19.5	78.6	0	0	1012
	10/10/13	15:49	00.1	00.2	1.6	19.6	78.6	0	0	1012
	10/10/13	15:50	00.1	00.2	1.6	19.5	78.6	0	0	1012
	10/10/13	15:51	00.1	00.2	1.5	19.5	78.7	0	0	1012
	10/10/13	15:52	00.1	00.2	1.6	19.5	78.6	0	0	1012
	10/10/13	15:53	00.1	00.2	1.6	19.6	78.6	0	0	1012
	10/10/13	15:54	00.1	00.2	1.7	19.4	78.8	0	0	1012
	10/10/13	15:55	00.1	00.2	1.7	19.4	78.7	0	0	1012
	10/10/13	15:56	00.1	00.2	1.6	19.6	78.6	0	0	1012
	10/10/13	15:57	00.1	00.2	1.7	19.4	78.8	0	0	1012
	10/10/13	15:58	00.1	00.2	1.6	19.6	78.6	0	0	1012
	10/10/13	15:59	00.1	00.2	1.7	19.4	78.8	0	0	1012
10/10/13	16:00	00.1	00.2	1.7	19.4	78.7	0	0	1012	

Landfill Gas Extended Monitoring Results – GW 5

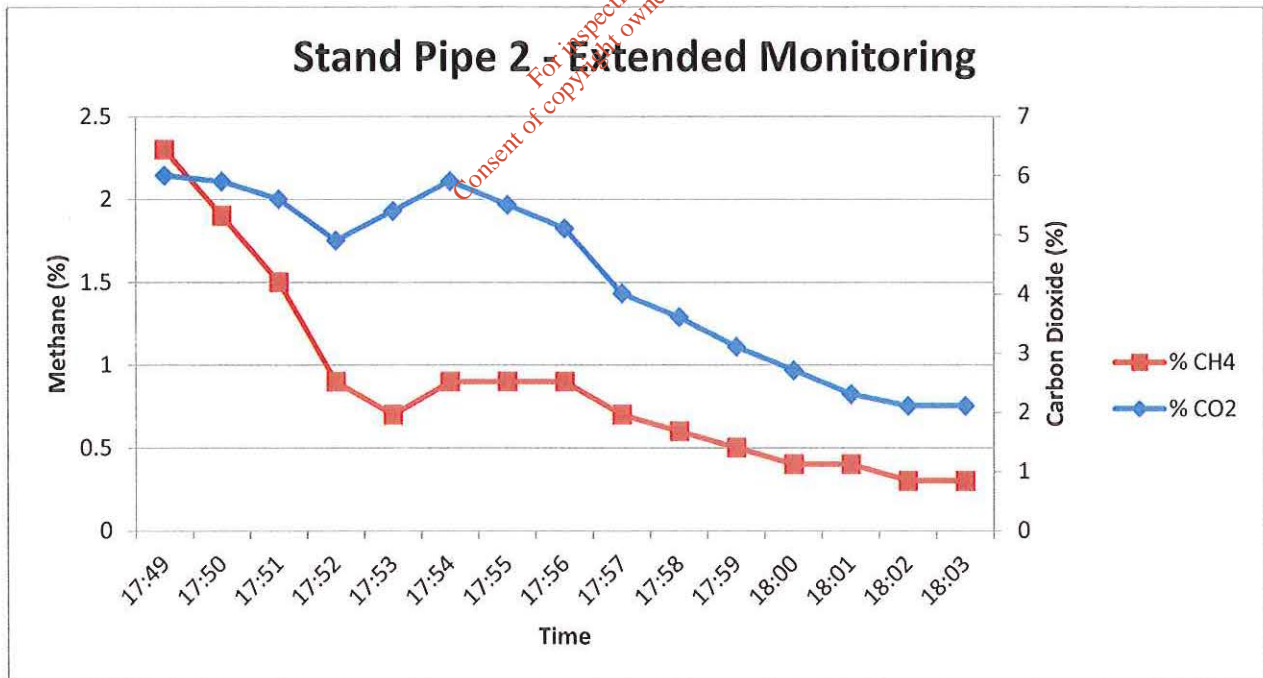
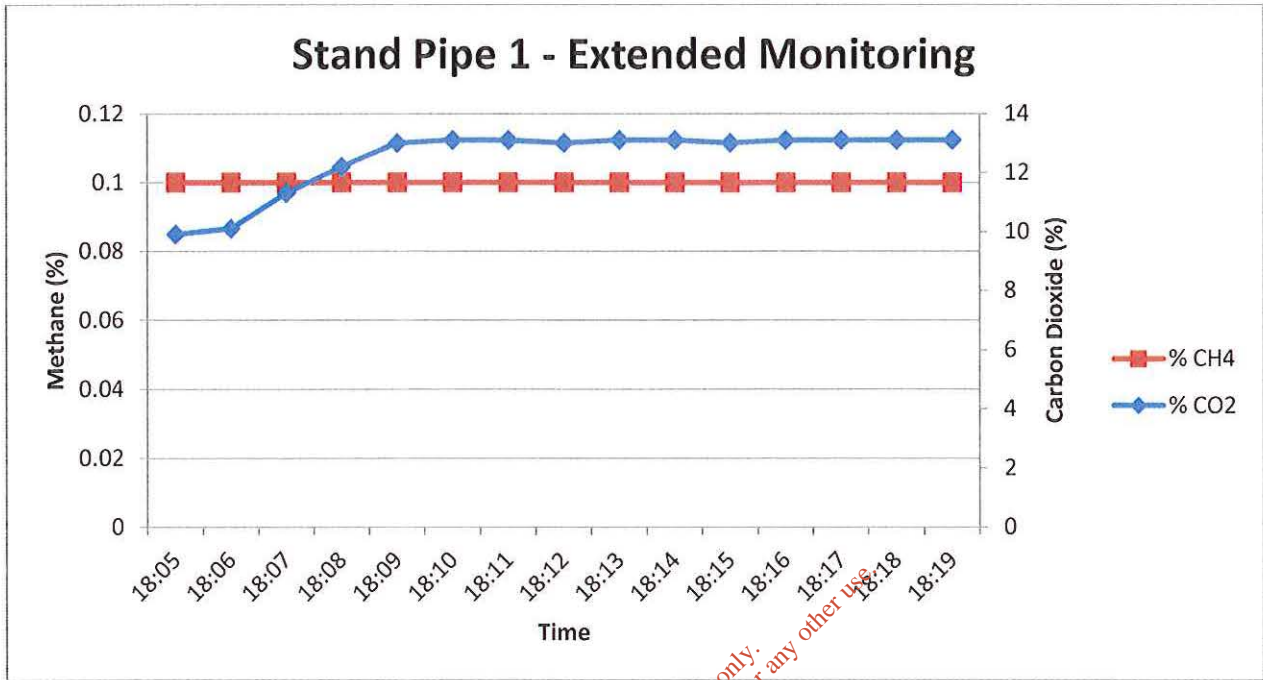
Monitoring Well I.D	Monitoring Date	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 5	10/10/13	16:02	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:03	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:04	0	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:05	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:06	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:07	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:08	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:09	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:10	00.1	00.2	00.2	20.8	78.9	0	0	1014
	10/10/13	16:11	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:12	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:13	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:14	00.1	00.2	00.2	20.8	78.8	0	0	1014
	10/10/13	16:15	00.1	00.2	00.2	20.8	78.8	0	0	1014
10/10/13	16:16	00.1	00.2	00.2	20.8	78.8	0	0	1014	

Landfill Gas Extended Monitoring Results – GW 6

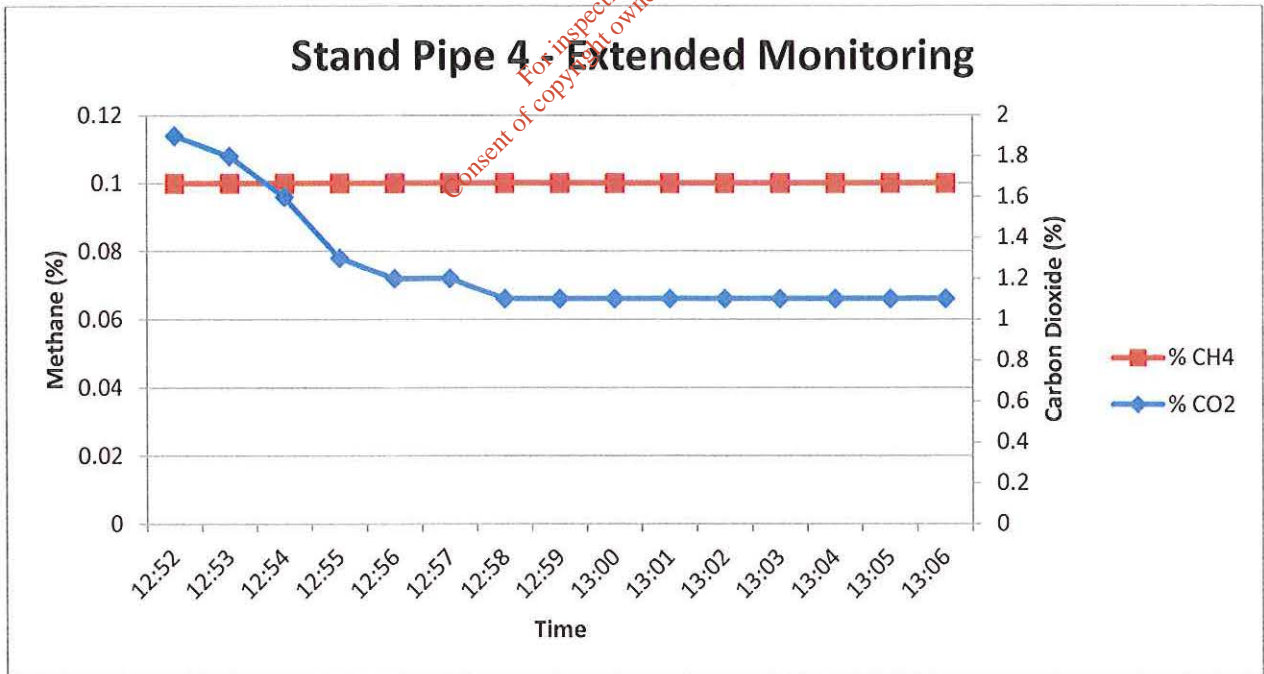
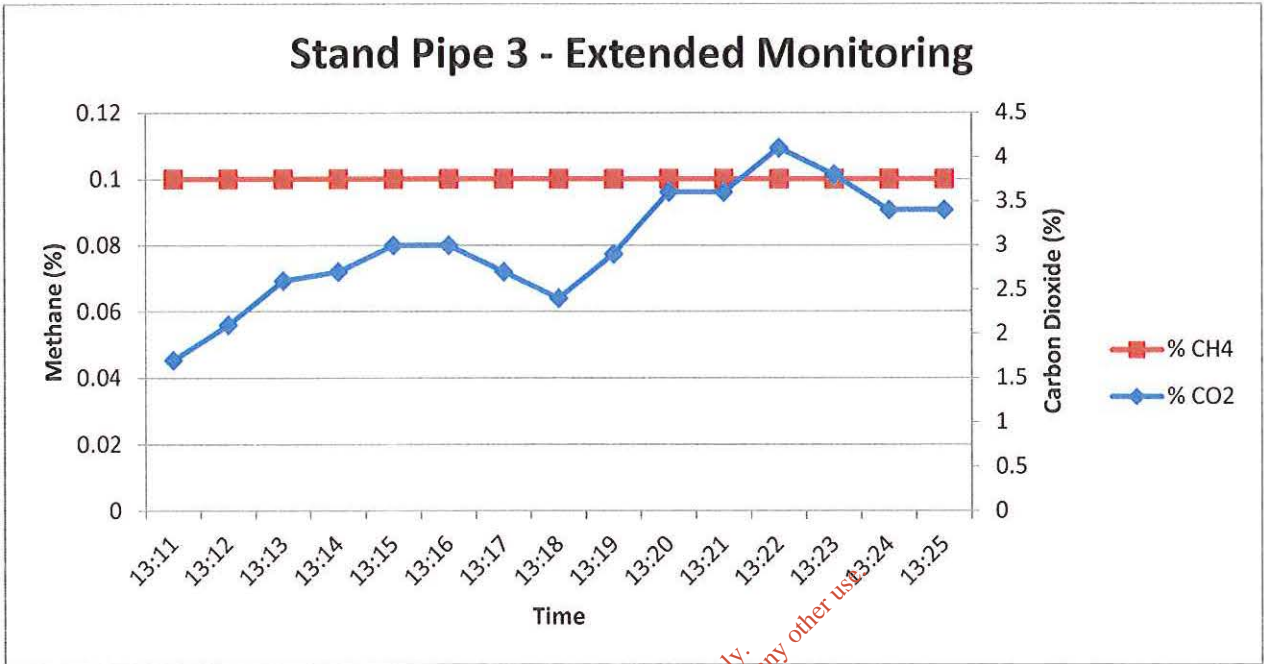
Monitoring Well I.D	Monitoring Date	Monitoring Time	Stable Methane (CH ₄)	Peak Methane CH ₄	Carbon Dioxide (CO ₂)	Oxygen (O ₂)	Balance	Carbon Monoxide (CO)	Hydrogen Sulphide H ₂ S	Barometric Pressure
			Units	% v/v	% v/v	% v/v	% v/v	% v/v	ppm	ppm
GW 6	10/10/13	16:19	00.1	00.1	00.7	19.9	79.2	0	0	1014
	10/10/13	16:20	00.1	00.2	00.6	20.0	79.2	0	0	1014
	10/10/13	16:21	00.1	00.2	00.6	20.1	79.1	0	0	1014
	10/10/13	16:22	00.1	00.2	00.6	20.1	79.1	0	0	1014
	10/10/13	16:23	00.1	00.2	00.6	20.2	79.2	0	0	1014
	10/10/13	16:24	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:25	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:26	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:27	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:28	00.1	00.2	00.5	20.3	79.1	0	0	1014
	10/10/13	16:29	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:30	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:31	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:32	00.1	00.2	00.5	20.2	79.1	0	0	1014
	10/10/13	16:33	00.1	00.2	00.5	20.2	79.1	0	0	1014

Appendix E - Gas Monitoring Results

Extended Monitoring Graphs



Appendix E - Gas Monitoring Results



Appendix E - Gas Monitoring Results

