

TIER 3

ENVIRONMENTAL RISK ASSESSMENT

APPENDIX B

GAS MONITORING RESULTS

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Landfill Gas Monitoring Results - GW 1 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 1	M1	28.10.14	0.2	2	0.3	0.3	19.7	79.7	0	0	1001
	M2	30.10.14	0.2	3	0.2	0.9	19.1	79.8	0	0	1001
	M3	06.11.14	0.1	2	0.2	0.8	19.1	79.8	0	0	980
	M4	11.11.14	0.2	3	0.2	0.6	18.9	80.2	0	0	979
	M5	12.11.14	0.1	1	0.1	0.2	19.6	80.1	0	0	979
	M6	14.11.14	0.1	2	0.1	0.1	20.3	79.5	0	0	983
	M7	17.11.14	0.1	2	0.1	0.3	19.6	79.9	0	0	999
	M8	18.11.14	0.1	2	0.1	0.1	19.3	80.5	0	0	1003
	M9	19.11.14	0.1	2	0.1	0.1	19.4	80.4	0	0	1007
	M10	20.11.14	0.1	2	0.1	0.1	20	80	0	0	1016
	M11	21.11.14	0.1	2	0.1	0	19.9	79.8	0	0	1005
	M12	24.11.14	0.1	1	0.1	0.1	16.3	80.1	0	0	1016
	M13	25.11.14	0.1	2	0.1	0.1	19.9	79.8	0	0	1014
	M14	26.11.14	0.1	2	0.1	0.4	19.7	79.5	0	0	1014
	M15	27.11.14	0.2	3	0.2	0.2	19.7	79.9	0	0	993

Landfill Gas Monitoring Results - GW 1 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 1	M16	08.12.14	0.1	2	0.1	0.5	19.5	79.7	0	0	1014
	M17	09.12.14	0.1	2	0.1	0.6	19.5	79.8	0	0	1001
	M18	10.12.14	0.1	2	0.1	0.4	19.8	79.6	0	0	1001
	M19	11.12.14	0.1	1	0.1	0.4	20.2	79.6	0	0	994
	M20	12.12.14	0.1	1	0.1	0.4	20.4	79	0	0	993
	M21	13.12.14	0	0	0.1	0.4	19.8	79.7	0	0	991
	M22	15.12.14	0.1	1	0.1	0.4	20.3	79.2	0	0	991

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Landfill Gas Monitoring Results - GW 2 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 2	M1	28.10.14	0.2	3	0.2	2.4	16.4	81	0	0	1001
	M2	30.10.14	0.1	2	0.2	4.8	15.2	79.9	0	0	1001
	M3	06.11.14	0.2	3	0.2	0.2	19.7	79.9	0	0	980
	M4	11.11.14	0.2	4	0.2	0.4	19.1	80.2	0	0	979
	M5	12.11.14	0.2	3	0.2	2.8	17.2	79.8	0	0	979
	M6	14.11.14	0.1	2	0.1	1.6	18	80.2	0	0	983
	M7	17.11.14	0.1	2	0.1	8.9	7.3	83.6	0	0	999
	M8	18.11.14	0.1	2	0.1	3.2	16	80.6	0	0	1003
	M9	19.11.14	0.1	2	0.1	7	9.6	83.7	0	0	1007
	M10	20.11.14	0.1	2	0.1	0.2	19.8	79.8	0	0	1016
	M11	21.11.14	0.1	1	0.1	4.3	14.5	81	0	0	1005
	M12	24.11.14	0.1	2	0.1	2.7	15.7	79.6	0	0	1016
	M13	25.11.14	0.1	2	0.1	1.5	18.2	80.2	0	0	1014
	M14	26.11.14	0.2	3	0.2	2.4	16.4	81	0	0	1001
	M15	27.11.14	0.1	2	0.1	1.4	18.4	80.1	0	0	992

Landfill Gas Monitoring Results - GW 2 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 2	M16	08.12.14	0.1	2	0.1	0.5	19.8	79.5	0	0	1014
	M17	09.12.14	0.1	2	0.1	3.2	18.9	77.6	0	0	1002
	M18	10.12.14	0.1	1	0.1	0	20	79.8	0	0	1001
	M19	11.12.14	0.1	1	0.1	0	20.1	79.7	0	0	993
	M20	12.12.14	0.1	1	0.1	0.9	20.1	78.7	0	0	993
	M21	13.12.14	0	0	0	0	20.1	79.7	0	0	991
	M22	15.12.14	0.1	1	0.1	0.1	20.6	79.1	0	0	991

Landfill Gas Monitoring Results - GW 3 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 3	M1	28.10.14	1.3	24	1.3	7.6	13.8	77.3	0	0	1001
	M2	30.10.14	0.6	11	0.6	9.2	12	78.3	0	0	1001
	M3	06.11.14	0.4	14	0.7	10.8	9.9	78.5	0	0	979
	M4	11.11.14	0.4	8	0.5	8.9	12.8	77.8	0	0	979
	M5	12.11.14	0.3	6	0.3	8.1	13.5	78	0	0	979
	M6	14.11.14	0.6	11	0.6	9.3	10.5	79.5	0	0	983
	M7	17.11.14	0.7	13	0.7	8.2	12.2	78.9	0	0	999
	M8	18.11.14	0.6	11	0.6	8.1	12.9	78.4	0	0	1003
	M9	19.11.14	0.5	10	0.6	7.5	13.4	78.5	0	0	1007
	M10	20.11.14	0.5	10	0.6	6.2	14.9	78.2	0	0	1015
	M11	21.11.14	0.6	12	0.6	6.1	14.4	78.8	0	0	1005
	M12	24.11.14	0.3	6	0.4	7.3	13	79.2	0	0	1016
	M13	25.11.14	0.4	8	0.4	4.9	15.5	79.1	0	0	1014
	M14	26.11.14	0.4	8	0.4	4.9	15.8	78.8	0	0	1014
	M15	27.11.14	0.2	3	0.2	6.9	13.8	79.1	0	0	992

Landfill Gas Monitoring Results - GW 3 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 3	M16	08.12.14	0.1	1	0.1	7.6	11.6	80.6	0	0	1014
	M17	09.12.14	0.1	1	0.1	14.4	5	80.3	0	0	1011
	M18	10.12.14	0.1	2	0.1	9.6	1	80.1	0	0	1001
	M19	11.12.14	0.1	1	0.1	8.6	11.7	79.6	0	0	992
	M20	12.12.14	0.1	1	0.1	8.7	11.8	79.3	0	0	993
	M21	13.12.14	0	0	0.1	7.5	13.5	78.9	0	0	991
	M22	15.12.14	0.1	1	0.1	7.4	13.8	78.6	0	0	991

Landfill Gas Monitoring Results - GW 4 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 4	M1	28.10.14	0.2	3	0.2	4.7	15.8	79.2	0	0	1001
	M2	30.10.14	0.1	2	0.1	5	14.3	80.6	0	0	1001
	M3	06.11.14	0.1	2	0.2	1.4	18.8	79.6	0	0	979
	M4	11.11.14	0.2	3	0.2	1.5	18.2	80.2	0	0	979
	M5	12.11.14	0.1	1	0.1	1.8	17.9	80.3	0	0	979
	M6	14.11.14	0.1	1	0.1	3.5	17.1	79.3	0	0	983
	M7	17.11.14	0.1	1	0.1	4.7	13.3	81.8	0	0	999
	M8	18.11.14	0.1	2	0.1	2.3	16.9	80.6	0	0	1003
	M9	19.11.14	0.1	1	0.1	3.1	17.2	79.5	0	0	1007
	M10	20.11.14	0.1	2	0.1	0.3	19.8	79.7	0	0	1016
	M11	21.11.14	0.3	4	0.3	3.8	15.7	80.4	0	0	1005
	M12	24.11.14	0.1	2	2	4.2	15.2	79.9	0	0	1017
	M13	25.11.14	0.1	2	0.1	4	15.5	80.3	0	0	1014
	M14	26.11.14	0.1	1	0.1	3.6	16.3	79.9	0	0	1014
	M15	27.11.14	0.1	1	0.1	1.3	18.6	79.8	0	0	992

Landfill Gas Monitoring Results - GW 4 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 4	M16	08.12.14	0.1	2	0.1	3.6	16.8	79.4	0	0	1014
	M17	09.12.14	0.1	1	0.1	3.5	18.3	80	0	0	1000
	M18	10.12.14	0.1	2	0.1	2.5	18.3	79.3	0	0	1001
	M19	11.12.14	0.1	1	0.1	2.8	17.8	79.3	0	0	992
	M20	12.12.14	0	1	0.1	2.8	17.9	79.1	0	0	993
	M21	13.12.14	0	1	0.1	2.8	17.1	79.9	0	0	991
	M22	15.12.14	0.1	1	0.1	2.7	17.5	79.6	0	0	991

Landfill Gas Monitoring Results - GW 5 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 5	M1	28.10.14	0.2	3	0.2	2.2	15.4	82.2	0	0	1001
	M2	30.10.14	0.1	2	0.2	0	19.8	80	0	0	1001
	M3	06.11.14	0.1	2	0.2	0	19.8	79.9	0	0	979
	M4	11.11.14	0.2	4	0.2	0.4	19.2	80.1	0	0	979
	M5	12.11.14	0.1	1	0.1	0.4	19.9	79.6	0	0	979
	M6	14.11.14	0.1	1	0.1	0	19.9	79.9	0	0	983
	M7	17.11.14	0.1	2	0.1	6.1	10	83.9	0	0	999
	M8	18.11.14	0.2	3	0.2	1	17.6	81.1	0	0	1003
	M9	19.11.14	0.1	2	0.1	2.9	15	81.8	0	0	1007
	M10	20.11.14	0.1	2	0.1	0.6	19.1	80.1	0	0	1016
	M11	21.11.14	0.1	2	0.1	4.4	14.1	81.3	0	0	1005
	M12	24.11.14	0.1	2	0.2	1.6	16.1	80	0	0	1016
	M13	25.11.14	0.1	1	0.1	0.3	19.4	80.1	0	0	1014
	M14	26.11.14	0.1	1	0.1	0.2	19.9	79.9	0	0	1014
	M15	27.11.14	0.1	1	0.1	4.5	11.4	83.9	0	0	992

Landfill Gas Monitoring Results - GW 5 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 5	M16	08.12.14	0.1	2	0.1	1	19.1	79.7	0	0	1014
	M17	09.12.14	0.1	1	0.1	0	19.8	79.9	0	0	1001
	M18	10.12.14	0.1	1	0.1	0.5	19.8	79.5	0	0	1001
	M19	11.12.14	0.1	1	0.1	0	20.4	79.4	0	0	992
	M20	12.12.14	0.1	1	0.1	0	20.8	79	0	0	993
	M21	13.12.14	0.1	1	0.1	2.1	17.1	80.6	0	0	991
	M22	15.12.14	0.1	1	0.1	2.3	17.1	80.5	0	0	991

Landfill Gas Monitoring Results - GW 6 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 6	M1	28.10.14	0.2	3	0.2	4.2	15.8	79.8	0	0	1001
	M2	30.10.14	0.1	2	0.1	5.5	14.8	79.6	0	0	1001
	M3	06.11.14	0.1	3	0.2	7.9	11.9	80.1	0	0	979
	M4	11.11.14	0.2	3	0.2	0.8	19.2	79.8	0	0	979
	M5	12.11.14	0	0	0.1	2.1	18.2	79.6	0	0	979
	M6	14.11.14	0.1	2	0.1	6.9	9.9	83	0	0	983
	M7	17.11.14	0.1	2	0.1	1.7	18.8	79.4	0	0	999
	M8	18.11.14	0.1	2	0.2	1.9	17.8	80	0	0	1003
	M9	19.11.14	0.1	2	0.1	3.8	16.3	79.8	0	0	1007
	M10	20.11.14	0.1	2	0.1	0.4	19.8	79.6	0	0	1016
	M11	21.11.14	0.1	1	0.1	4.7	13.8	81.3	0	0	1005
	M12	24.11.14	0.2	1	0.2	0.6	16.3	80.3	0	0	1016
	M13	25.11.14	0.1	1	0.1	5	12.6	82.2	0	0	1014
	M14	26.11.14	0.1	1	0.1	3.6	15	81.4	0	0	1014
	M15	27.11.14	0.1	2	0.1	2	17	80.7	0	0	992

Landfill Gas Monitoring Results - GW 6 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 6	M16	08.12.14	0.1	1	0.1	5.1	13	81.9	0	0	1014
	M17	09.12.14	0.1	2	0.1	10.6	6.4	82.9	0	0	1001
	M18	10.12.14	0.1	1	0.1	9.2	10.8	80	0	0	1001
	M19	11.12.14	0.1	2	0.1	7.9	12.6	79.4	0	0	993
	M20	12.12.14	0	1	0.1	8	12.3	79.6	0	0	993
	M21	13.12.14	0.1	1	0.1	5.2	14.6	80.2	0	0	991
	M22	15.12.14	0	1	0.1	1.5	18.8	79.6	0	0	991

Landfill Gas Monitoring Results - GW 7 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 7	M1	28.10.14	0.2	3	0.2	2.6	18.9	79.2	0	0	1002
	M2	30.10.14	1	20	1	1.5	18.7	78.7	0	0	1000
	M3	06.11.14	1.3	18	1.3	4.8	14.7	79.1	0	0	979
	M4	11.11.14	0.2	3	0.6	0.2	19.6	79.8	0	0	979
	M5	12.11.14	0.1	1	0.1	2.6	18.2	79.1	0	0	979
	M6	14.11.14	0.1	2	0.1	4.6	15.4	79.8	0	0	983
	M7	17.11.14	0.1	2	0.1	0.7	18.9	80.1	0	0	999
	M8	18.11.14	0.1	2	0.1	3.7	16.4	79.6	0	0	1003
	M9	19.11.14	0.1	2	0.1	3.9	16.4	79.5	0	0	1007
	M10	20.11.14	0.1	2	0.1	1.1	19.1	79.5	0	0	1016
	M11	21.11.14	0.1	1	0.1	7.2	13.2	79.4	0	0	1004
	M12	24.11.14	0.1	1	0.1	1.8	16.9	80.6	0	0	1017
	M13	25.11.14	0.1	2	0.1	1.6	18.4	79.8	0	0	1014
	M14	26.11.14	0.2	3	0.2	0.9	19.3	79.6	0	0	1014
	M15	27.11.14	0.1	1	0.1	1.8	18.3	79.8	0	0	992

Landfill Gas Monitoring Results - GW 7 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 7	M16	08.12.14	0.1	2	0.1	1.4	19.1	79.3	0	0	1014
	M17	09.12.14	0.1	2	0.1	3.6	16.5	80	0	0	1001
	M18	10.12.14	0.1	1	0.1	2.6	17.8	79.3	0	0	1001
	M19	11.12.14	0	1	0.1	2.1	18.3	79.4	0	0	993
	M20	12.12.14	0	1	0.1	2.7	11.6	7.9	0	0	992
	M21	13.12.14	0.1	1	0.1	1.9	18.5	79.5	0	0	991
	M22	15.12.14	0.1	1	0.1	1.7	18.9	79.2	0	0	991

Landfill Gas Monitoring Results - GW 8 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 8	M1	28.10.14	11.5	>>>	11.5	3.2	15.3	76.2	0	0	1002
	M2	30.10.14	8.8	>>>	8.8	3.9	15.1	72.1	0	0	1001
	M3	06.11.14	4	78	4	5.2	14.1	76.6	0	0	979
	M4	11.11.14	2.7	53	2.7	5.6	14.5	77.2	0	0	979
	M5	12.11.14	2.5	50	2.5	5.7	14.2	77.6	0	0	979
	M6	14.11.14	1.9	37	1.9	6.2	12.7	79.2	0	0	984
	M7	17.11.14	1.6	32	1.7	6.7	12.7	78.9	0	0	999
	M8	18.11.14	1.4	28	1.5	6.8	12.1	79.6	0	0	1003
	M9	19.11.14	1.2	23	1.2	6.3	13	79.5	0	0	1007
	M10	20.11.14	1.2	24	1.2	6.6	12.9	79.2	0	0	1016
	M11	21.11.14	1.2	23	1.2	6.8	12.6	79.4	0	0	1005
	M12	24.11.14	0.2	3	0.2	3.7	16.1	79.8	0	0	1017
	M13	25.11.14	0.8	15	0.8	5.9	14.9	78.4	0	0	1014
	M14	26.11.14	0.8	15	0.8	5.9	15	78.3	0	0	1014
	M15	27.11.14	0.7	13	0.7	6.1	15	78.2	0	0	992

Landfill Gas Monitoring Results - GW 8 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 8	M16	08.12.14	0.5	10	0.5	5.8	18.8	77.8	0	0	1015
	M17	09.12.14	0.4	8	0.4	5.4	16.6	77.5	0	0	1001
	M18	10.12.14	0.3	6	0.3	5.1	17.3	77.2	0	0	1002
	M19	11.12.14	0.2	4	0.2	3.7	19	76.9	0	0	993
	M20	12.12.14	0.2	4	0.2	3.7	18.9	77	0	0	993
	M21	13.12.14	0.2	3	0.2	3.3	18.9	77.5	0	0	991
	M22	15.12.14	0.1	2	0.1	3.3	19	79.4	0	0	992

Landfill Gas Monitoring Results - GW 9 Tier 2 M1 - M15

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 2 - Landfill Gas Monitoring Events M1 - M15											
GW 9	M1	28.10.14	0.3	6	0.3	1.2	18.6	79.8	0	0	1002
	M2	30.10.14	0.8	15	0.8	1.3	18.7	79.3	0	0	1000
	M3	06.11.14	0.3	7	0.4	1.8	19	78.8	0	0	979
	M4	11.11.14	0.5	12	1	2.8	16.9	79.6	0	0	979
	M5	12.11.14	0.4	8	0.4	2.6	17.8	79.1	0	0	979
	M6	14.11.14	0.3	6	0.3	2.1	18.2	79.2	0	0	983
	M7	17.11.14	0.5	9	0.5	3.3	16.4	79.6	0	0	999
	M8	18.11.14	0.4	8	0.4	2.9	16.3	80.3	0	0	1003
	M9	19.11.14	0.3	5	0.3	3.8	15.2	80.4	0	0	1007
	M10	20.11.14	0.5	9	0.5	2.5	17.1	79.9	0	0	1016
	M11	21.11.14	0.4	8	0.4	3.6	15.2	80.7	0	0	1005
	M12	24.11.14	0.5	10	0.5	6	14.7	78.7	0	0	1017
	M13	25.11.14	0.4	7	0.4	2.2	18.1	79.4	0	0	1014
	M14	26.11.14	0.1	1	0.1	2	18.6	79.2	0	0	1014
	M15	27.11.14	0.1	2	0.1	3.9	17.1	78.9	0	0	992

Landfill Gas Monitoring Results - GW 9 Tier 3 M16 - M21

Monitoring Well I.D	Monitoring Event	Monitoring Date	Stable Methane (CH ₄)	% LEL 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	mb
Tier 3 - Landfill Gas Monitoring Events M1 - M15											
GW 9	M16	08.12.14	0.2	3	0.2	0.9	19.1	79.8	0	0	1014
	M17	09.12.14	0.1	2	0.1	0.3	19.8	79.7	0	0	1002
	M18	10.12.14	0.1	1	0.1	0.2	20.2	79.5	0	0	1001
	M19	11.12.14	0.1	2	0.1	0.3	20.4	79.1	0	0	993
	M20	12.12.14	0.1	1	0.1	0.3	20.5	79	0	0	992
	M21	13.12.14	0.1	1	0.1	0.8	19.7	79.3	0	0	992
	M22	15.12.14	0.1	2	0.1	0.9	19.3	79.3	0	0	992

External Gas Monitoring Results conducted outside the Historic Landfill at 5 Locations.

Monitoring Location No.	Monitoring Location Description	Monitoring	Stable Methane	% LEL	Peak Methane	Carbon Dioxide	Oxygen	Balance	Carbon Monoxide	Hydrogen Sulphide	Barometric
		Date	(CH ₄)	CH ₄	CH ₄	(CO ₂)	(O ₂)		(CO)	H ₂ S	Pressure
		Units	% v/v	%	% v/v	% v/v	% v/v	% v/v	ppm	ppm	mb
No. 1	Eircom Service Duct(Square)	16.12.14	0.1	2	0.1	0	19.5	80.3	0	0	1001
No. 2	Eircom Service Duct (Round)	16.12.14	0.1	2	0.1	0	19.4	80.3	0	0	1001
No. 3	Surface Water Road Gully	16.12.14	0.1	2	0.1	0	19.4	80.3	0	0	1001
No. 4	Foul Water Inspection MH	16.12.14	0.1	2	0.1	0	19.6	80.2	0	0	1001
No. 5	Surfacw Water Inspection MH	16.12.14	0.1	2	0.1	0	19.5	80.3	0	0	1001

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