

**LANDFILL GAS MONITORING RESULTS
FOR GAS WELLS GS01-04 &
GROUNDWATER/GAS MONITORING WELLS
BH1-BH17
(TABLES A13.1 TO A13. 34)**

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Table A - 13.1 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH7 at Barnegeernagh Cove, Skerries, County Dublin from June 2017 to July 2017

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
23/06/2017	GAS01	1010		0	0		1.3	1.3	0	18	80.6	0	1
	GAS02	1010		0	0		0.2	0.2	0	20	79.7	0	2.2
	GAS03	1010		0	0		0	0	0	20	79.8	0	2.4
	GAS04	1010		0	0		0.1	0.1	0	20	79.8	0	1.5
	BH1	1010		0	0		0	0	0	20.1	79.8	0	0
	BH2	1010		0	0		1.7	1.7	0	19.5	78.7	0	1.8
	BH3	1010		0	0		4.4	4.4	0	15.4	80.1	0	12.1
	BH4	1010		8.4	8.4		7.5	7.5	1	1.2	82.7	0	0
	BH5	1009		0	0		0.1	0.1	0	19.9	80	0	5.4
	BH6	1009		3.3	3.3		13.7	13.7	0	0.7	82.1	0	0
BH7	1009		0	0		0	0	0	20.1	79.8	0	8.1	
27/06/2017	GAS01	999	0.01	0	0	0	0.3	0.6	2	19.7	80.2	0	1.7
	GAS02	1000	0.01	0	0	0	0.1	0.1	0	19.7	80	0	1.1
	GAS03	1000	0.01	0	0	0	0	0	0	19.8	80.2	0	0.2
	GAS04	999	0.01	0	0	0	0	0.2	0	19.7	80	0	0
	BH1	1002	0.01	0.5	0.5	10	0.9	1	0	18.8	79.6	0	0.3
	BH2	1003	0.01	0	0.4	0	2.4	2.8	0	18.1	79.4	0	0.6
	BH3	1004	0.01	0.1	0.1	2	5.9	6.2	0	13	80.9	0	6.1
	BH4	1003	0.01	11.4	11.5	228	8.7	8.9	8	0	78.9	0	0
	BH5	1003	0.01	0	0.1	0	6.1	6.7	0	14.2	79.6	0	0
	BH6	1002	0.01	1.8	1.9	36	6.7	6.9	6	10.1	80.3	0	1.5
BH7	1002	0.01	1.5	1.6	30	11.9	12.4	0	4.1	82.3	0	2.3	
12/07/2017	GAS01	1022	0.2	0	0	0	1	1.2	0	19.5	79.5	2	6.6
	GAS02	1022	0.3	0	0	0	0.6	0.6	0	19.8	79.6	2	2.4
	GAS03	1022	0.1	0	0	0	0.6	0.6	0	19.5	79.9	2	3.6
	GAS04	1022	0.1	0	0	0	0.7	0.7	1	20	79.3	2	2.6
	BH1	1021	0.1	0	0	0	0.1	0.1	2	20.5	79.4	1	2.1
	BH2	1021	0.1	0	0	0	2.5	2.6	1	18.5	78.9	1	2.1
	BH3	1019	0.1	0	0	0	3.8	4	0	15.7	80.5	0	0
	BH4	1023	0.1	12.5	12.6	250	10.6	10.7	0	0.6	76.5	2	0
	BH5	1021	0.1	0	0	0	0.1	0.1	0	20.6	79.2	1	14
	BH6	1019	0.1	0.8	0.8	16	5.4	5.6	1	14.2	79.6	1	2.4
BH7	1021	0.1	0	0	0	6.5	6.5	0	12.3	81.2	1	9	

Table A - 13.2 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH13 at Barnegeernagh Cove, Skerries, County Dublin, August 2017

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
02/08/2017	GAS01	1004	0.1	0	0	0	1.2	1.2	0	19.6	79.2	0	No VOC Analysis due to Heavy Rainfall
	GAS02	1004	0.1	0	0	0	0.1	0.8	0	20.9	79	0	
	GAS03	1003	0.1	0	0	0	0.5	0.5	0	20.5	79	0	
	GAS04	1003	0.1	0	0	0	0.4	0.4	0	20.7	78.9	0	
	BH1	999	0.1	6.2	6.2	124	11.7	12	0	0.1	82	0	
	BH2	1004	0.1	0	0	0	3.5	3.5	5	17.9	78.6	0	
	BH3	1005	0.1	0	0	0	7.3	7.6	0	11	81.7	0	
	BH4	1000	0.1	16.5	17.1	342	11.3	12.1	0	0.9	70.9	0	
	BH5	1004	0.1	0	0	0	4.7	4.7	0	16	79.3	0	
	BH6	1004	0.1	0.6	0.6	12	15.6	15.7	0	2.5	81.3	0	
BH7	1004	0.1	0	0	0	11.1	13.1	0	8.7	80.2	0		
11/08/2017	GAS01	1020	0.1	0	0	0	1.3	1.4	0	19.1	79.6	1	1
	GAS02	1015	0.1	0	0	30	0	1.4	0	20.5	79.5	2	0.5
	GAS03	1014	0.1	0	0	0	0.1	0.4	2	20.8	71.1	2	0.7
	GAS04	1020	0.1	0	0	0	0.1	0.1	1	21	78.9	2	2.1
	BH1	1019	0.2	1.9	2	40	11.8	11.8	0	0.2	86.1	0	4.6
	BH2	1022	0.3	0	0.3	6	3.3	3.6	1	17.6	79.1	0	6.8
	BH3	1011	0.1	0	0	0	4.2	4.3	0	15.5	80.3	0	0
	BH4	1015	0.1	16.9	16.9	338	11.9	11.9	2	0.3	70.9	3	0
	BH5	1014	0.1	0	0	0	14.6	14.6	1	15.5	70.9	0	6.3
	BH6	1014	0.1	1	1	20	14.8	14.9	1	2.4	81.8	0	3.8
	BH7	1014	0.1	1.7	1.7	34	15.5	15.5	1	1.3	81.5	0	8.2
	BH8	1015	0.1	7.5	7.5	150	8.6	8.7	1	0.9	82.9	1	0
	BH9	1014	0.1	23.9	24.6	492	18.6	19.1	1	0.9	56.6	2	0
	BH10	1018	0.1	0	1.7	34	11.4	11.4	2	5.5	83.1	1	0
BH11	1022	0.1	0	0	0	10.9	10.9	2	8.9	80.2	2	0	
BH12	1028	0.1	12.1	13.1	262	14.5	15.5	3	1.7	72	3	0	
BH13	1014	0.1	0	0.2	4	4.5	4.5	1	5.5	90	3	0	

Table A - 13.3 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH14 at Barnegeernagh Cove, Skerries, County Dublin, from September to November 2017

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
18/09/2017	GAS01	Monitoring not conducted as gas wells (GS01 and GS02) were in accessible											
	GAS02	Monitoring not conducted as gas wells (GS01 and GS02) were in accessible											
	GAS03	1010	0	0	0.2	/	0.2	0.9	1	21.3	78.5	0	No VOC Analysis due to Heavy Rainfall
	GAS04	1010	0	0	0	/	0.1	0.2	0	21.3	78.6	1	
	BH1	1009	0.1	6.8	6.9	/	11.4	11.6	1	0.9	80.9	0	
	BH2	1009	0.1	0	0	/	3.1	3.4	0	18.2	78.7	0	
	BH3	1010	0	0	0	/	0.9	1	0	19.9	79.2	0	
	BH4	1010	0.1	25.5	25.5	/	18.5	18.5	1	0.6	55.5	0	
	BH5	1010	0.1	0	0	/	2.2	2.2	1	18.5	79.3	0	
	BH6	1010	0	0.5	0.5	/	14.5	14.6	1	3	82	0	
	BH7	1010	0	0	0	/	1.3	1.7	1	18.9	79.8	0	
	BH8	1010	0	4.7	4.7	/	10.3	10.3	0	2.3	82.6	1	
	BH9	1010	0	10.7	11.2	/	10.5	10.6	1	11.3	67.3	0	
	BH10	1010	0	6.9	6.9	/	21.8	21.8	2	1.7	69.6	0	
	BH11	1010	0	0	0.7	/	13.2	13.2	1	8.6	78.2	0	
BH12	1010	0	18.8	19.6	/	20	20.1	2	0.4	60.8	1		
BH13	1011	0	0	0.5	/	7.4	7.4	1	7.1	85.5	0		
23/11/2017	GAS01	994	0.2	0	0	/	0.7	0.7	1	20.6	78.7	0	0
	GAS02	994	0.1	0	0.2	/	0.1	1	0	22.2	77.7	0	0
	GAS03	995	0.1	0	0	/	0.1	0.3	1	22.1	77.8	1	0
	GAS04	995	0.1	0	0	/	0.2	0.2	3	22.1	77.8	1	0
	BH1	993	0.2	1.8	1.8	/	12.7	12.8	1	0.9	84.5	0	0
	BH2	993	0.2	0	0	/	3.9	3.9	1	17.9	78.2	0	0
	BH3	993	0.3	0	0	/	0.2	0.2	1	21.6	78.1	0	0
	BH4	992	0.2	52.9	53.6	/	20.1	20.1	2	0.1	26.9	0	0
	BH5	992	0.2	0	0	/	0.7	0.7	0	21.3	78	0	0
	BH6	993	0.1	4.9	5	/	4.1	4.3	2	0.2	90.8	1	0
	BH7	994	0.1	5.5	5.5	/	15	15	2	3.8	75.6	0	0
	BH8	993	0.1	0	0	/	3.2	3.2	1	18.2	78.6	0	0.5
	BH9	992	0.1	0	0.1	/	0.4	0.9	1	21.3	78.3	0	0.5
	BH10	991	0.2	8.5	8.7	/	10	10.1	1	4.3	77.2	0	0
	BH11	992	0.2	0	3.6	/	11.3	11.3	1	12.6	76.1	0	0.4
BH12	991	0.1	0	0	/	8.6	8.6	1	1.9	89.5	0	0.7	
BH13	991	0.1	0	0	/	5.2	5.2	2	9.3	85.5	0	0.5	
BH14	990	0.2	0	0	/	0.2	1	1	20.8	79	0	0.9	

Table A - 13.4 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH14 at Barnegeernagh Cove, Skerries, County Dublin, December 2017

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
06/12/2017	GAS01	1017	0.2	0	0	0	0.5	0.6	1	21.4	78.1	1	0
	GAS02	1017	0.3	0	0	0	0.1	0.1	1	22.1	77.8	1	0
	GAS03	1017	0.2	0	0	0	0.1	0.1	1	22.1	77.8	1	0
	GAS04	1017	0.1	0	0	0	0.1	0.1	1	22.1	77.8	1	0
	BH1	1018	0.3	4.1	6	120	11.7	11.7	1	0.3	83.9	1	0
	BH2	1017	0.1	0	0	0	3.5	3.5	1	18.4	78.1	1	0
	BH3	1018	0.1	0	0.5	10	0.2	1	1	21.5	78.3	1	0
	BH4	1019	0.3	48.1	50.7	1014	19.7	20.2	1	0.2	32	1	0
	BH5	1018	0.3	0	0	0	1.3	1.3	1	20	78.7	1	0
	BH6	1018	0.1	3.5	3.5	70	13.9	13.9	3	0.2	82.4	1	0
	BH7	1018	0.1	3.9	3.9	78	16.6	16.6	1	0.1	79.4	1	0
	BH8	1019	0.3	0	0	0	2.4	2.4	1	18.6	79	0	0
	BH9	1018	0.2	0	4.3	86	0.5	1.9	1	21.2	78.3	0	0.6
	BH10	1019	0.1	0	0	0	7.3	7.3	0	14.4	78.3	0	0
	BH11	1019	0.2	0	0	0	12.3	12.3	2	11.1	76.6	1	0.7
BH12	1019	0.1	0	0	0	11.6	11.6	2	6.8	81.6	1	0.3	
BH13	1019	0.2	0	0	0	6.8	6.8	1	7.2	86	0	0	
BH14	1019	0.3	0	0	0	1.8	1.8	2	17.7	80.5	1	1.2	
13/12/2017	GAS01	992	0.1	0	0	0	0.9	0.9	0	20.3	78.7	0	No VOC Analysis due to Heavy Rainfall
	GAS02	992	0.2	0	0	0	0.1	0.2	0	22.2	77.7	0	
	GAS03	992	0.1	0	0	0	0.1	0.3	1	22.2	77.7	0	
	GAS04	992	0.1	0	0	0	0.2	0.4	1	21.8	77.8	0	
	BH1	992	0.1	4.7	5.3	106	11.8	11.8	1	0.3	83.2	0	
	BH2	992	0.1	0	0	0	4.5	4.5	1	17.2	78.3	0	
	BH3	992	0.2	0	0.9	18	0.2	0.9	0	21.4	78.4	0	
	BH4	992	0.2	57.3	57.7	1154	18.2	18.2	1	0.3	24.2	0	
	BH5	993	0.2	0	0	0	2.6	2.6	0	18.6	78.8	0	
	BH6	992	0.1	5.9	6.1	122	14.2	14.2	1	0.1	79.8	0	
	BH7	992	0.1	4.3	4.4	88	17.1	17.1	1	0.2	78.4	0	
	BH8	992	0.2	0	0.1	2	2.7	2.7	1	19.9	77.4	0	
	BH9	992	0.2	0	3.1	62	0.3	1.3	1	21.1	78.7	0	
	BH10	993	0.1	0	0	0	6	6	0	15.7	78.3	0	
	BH11	993	0.3	0	0	0	12.8	12.8	0	10.8	76.4	0	
BH12	993	0.1	0	0	0	6.4	6.4	1	6.4	81.2	0		
BH13	993	0.1	0	0	0	7.1	7.1	1	7.7	85.2	0		
BH14	989	0.1	0	0	0	0.3	0.9	1	20.8	78.9	0		

Table A - 13.5 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH14 at Barnegeernagh Cove, Skerries, County Dublin, from December 2017 to January 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
20/12/2017	GAS01	1034	0.0	0.0	0.8		0.6	1.1	1	21.4	78.0	1	0
	GAS02	1034	0.0	0.0	0.0		0.1	0.2	0.1	22.2	77.7	2	0
	GAS03	1034	0.0	0.0	0.0		0.1	0.1	1	22.2	77.7	1	0
	GAS04	1034	0.1	0.0	0.0		0.1	0.1	1	22.2	77.7	1	0
	BH1	1034	0	4.8	4.8		6.7	6.7	1	6.9	81.6	1	0
	BH2	1034	0	0	0		3.2	3.2	1	18.2	78.6	1	0
	BH3	1035	0.1	0	0		0.1	0.3	1	22	77.9	1	0
	BH4	1034	0	52.3	58.7		16.3	17.5	2	0.2	31.2	1	0
	BH5	Monitoring not conducted as gas tap was missing											
	BH6	1034	0.1	5.9	5.9		12.9	13	2	0.3	80.9	2	0
	BH7	1035	0	0	0		0.9	0.9	1	21.1	78	1	0
	BH8	1035	0.1	0	0.1		2.6	2.6	2	20.1	77.3	1	0
	BH9	1034	0.2	0	1.5		0.4	0.8	1	21.8	77.8	1	0
	BH10	1034	0	0	0		5.7	5.7	1	16.4	77.9	1	0
BH11	1034	0.2	0	0		9.9	9.9	2	13.5	76.6	1	0	
BH12	1034	0	0	0		9.2	9.2	2	10.3	80.5	1	0	
BH13	1034	0.1	0	0		6.2	6.2	2	8.5	85.3	1	0	
BH14	1034	0	0	0		0.2	0.7	1	21.5	78.3	1	0.1	
24/01/2018	BH4	994	0.2	38.5	38.6		8.1	8.1	1	0.4	52.9	0	0

Table A - 13.6 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH14 at Barnegeernagh Cove, Skerries, County Dublin, February 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
14/02/2018	GAS01	Monitoring not conducted as wells were being tested for Trace Landfill Gas Screen bu Odour Monitoring Ireland (Readings taken by Mulroy Environmental the following day 15/02/2018)											
	GAS02												
	GAS03												
	GAS04												
	BH1	990	0.2	1.2	1.2	24	5.2	5.2	0	11.8	81.8	1	0
	BH2	990	0.1	0	0	0	4.00	4.1	1	17.1	78.9	0	0
	BH3	991	0.2	0	0.8	16	0.1	0.5	1	20.8	79.1	1	0
	BH4	991	0.1	17.1	17.9	358	6.5	6.6	2	13	63.6	1	0
	BH5	Monitoring not conducted as gas tap was missing											
	BH6	988	0.1	7	7.2	144	12.5	12.6	1	0.2	80.3	0	0
	BH7	989	0.2	3.5	3.8	76	14.1	15.1	1	1.8	80.6	0	0
	BH8	991	0.3	0	0	0	0.5	0.5	0	20.2	79.3	0	0
	BH9	990	0.1	0	0	0	0.2	0.2	0	20.5	79.3	0	0
	BH10	989	0.1	0	0	0	5.1	5.1	0	15.6	79.3	0	0
	BH11	989	0.1	0	0	0	10.2	10.2	0	12.8	77	0	0
BH12	989	0	0	0.7	14	9.5	9.5	0	7.4	83.1	0	0	
BH13	991	0	0	0	0	2.1	2.3	1	19.4	78.5	0	0	
BH14	989	0	0	0	0	0.1	0.3	1	21.2	78.7	0	0	
15/02/2018	Gas 1	1003	0.1	0	0	0	0.3	0.3	0	21	78.7	0	0
	Gas 2	1003	0	0	0	0	0.1	0.2	0	21	78.9	0	0
	Gas 3	1003	0	0	0	0	0.1	0.1	0	21.1	78.8	0	0
	Gas 4	1003	0	0	0	0	0.1	0.1	0	21.1	78.8	0	0
	BH1	1001	0.1	2	2	40	12.7	12.7	0	0.4	84.9	0	0
	BH2	1001	0.2	0	0.1	2	4.1	4.1	0	17.2	78.6	0	0
	BH3	1002	0.2	0	0.9	18	0.2	0.6	0	20.4	79.4	0	0
	BH4	1002	0.2	18.9	19.6	392	9.2	9.2	2	6.4	65.5	0	0
20/02/2018	BH4	1	0.2	28.7	28.7	574	8.4	8.4	0	0.6	62.3	0	0

Table A - 13.7 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH14 at Barnegeernagh Cove, Skerries, County Dublin, from February to March 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
26/02/2018	GAS1	1003	0	0	0	0	1.4	1.4	1	18.3	80.3	0	0
	GAS2	1033	0	0	0	0	0.1	0.1	1	21.1	78.8	0	0
	GAS3	1034	0	0	0	0	0.1	0.1	0	21.1	78.8	0	0
	GAS4	1034	0	0	0	0	0.2	0.2	0	21.1	78.7	0	0
	BH1	1035	0.1	7.1	7.4	148	9.8	9.8	1	0.2	82.9	1	0
	BH2	1034	0.2	0	0	0	0.8	0.8	0	20.9	78.3	0	0
	BH3	1034	0.2	0	0	0	0.6	0.6	0	21.1	78.3	1	0
	BH4	1035	0.2	36.00	36.4	728	11.2	11.3	0	0.8	52.00	0	0
	BH5	1034	0.2	0	0	0	2.3	2.3	1	19.4	78.3	1	0
	BH6	1034	0.2	0.6	0.6	12	10.7	10.7	1	4.7	84.00	0	0
	BH7	1034	0.2	0	0.6	12	0.2	0.5	0	22.1	77.7	0	0
	BH8	1035	0.00	0	0	0	0.2	0.8	0	22.00	77.8	0	0
	BH9	1034	0.1	0	3.00	60	0.2	1	0	22.00	77.8	0	0.2
	BH10	1034	0.2	0	0	0	4.5	4.5	0	17.7	77.8	0	0
BH11	1035	0.2	0	0	0	4.00	4.00	0	19.3	76.7	0	0	
BH12	1035	0.1	0	0	0	3.6	3.6	0	18.1	78.3	0	0	
BH13	1035	0	0	0	0	0.1	0.1	0	22.3	77.6	0	0	
BH14	1036	0	0	0	0	0.1	0.2	0	22.3	77.6	0	0	
15/03/2018	GAS1	985	0	0	0	0	1	1	0	21.2	77.8	0	0
	GAS2	984	0	0	0	0	0.2	0.2	0	21.5	78.3	0	0
	GAS3	984	0	0	0	0	0	0	0	21.5	78.4	0	0
	GAS4	984	0	0	0	0	0.2	0.2	0	21.5	78.3	0	0
	BH1	982	0.1	3.7	3.9	78	12.6	13.2	0	1.9	81.8	0	0
	BH2	982	0	0.1	0.1	2	0.8	0.8	1	21.1	78	0	0
	BH3	982	0.1	0.1	0.1	2	0.2	0.2	0	22	77.8	0	0
	BH4	982	0.1	26.5	33	660	13.3	15.5	1	2.9	57.3	0	0
	BH5	983	0.1	0	0.2	4	2	2.1	0	20.7	77.3	0	0
	BH6	982	0.1	4.1	4.2	84	7.1	7.3	0	0.5	88.3	0	0
	BH7	983	0	3.7	3.9	78	13.3	13.9	1	4.5	78.5	0	0
	BH8	983	0	0.1	0.1	2	1.2	1.2	0	19.5	79.2	0	0
	BH9	983	0.1	0.4	2	2	0.3	1.1	0	21.6	77.8	0	0
	BH10	983	0	0	0.1	2	1	3.5	0	20.5	78.4	0	0
BH11	982	0.1	0	0.9	18	10.3	10.3	0	14	75.7	0	0	
BH12	983	0	0	0.7	14	2.1	2.1	0	16	81.9	0	0	
BH13	984	0.1	0	0	0	0.1	0.1	0	22.3	77.5	0	0	
BH14	984	0	0	0.1	2	0.1	0.3	0	22.3	77.6	0	0	

Table A - 13.8 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH14 at Barnegeernagh Cove, Skerries, County Dublin, from April to May 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
24/04/2018	GAS1	1008	0.1	0.1	0.1	2	0.9	0.9	1	21.4	77.6	0	No VOC Analysis due to Heavy Rainfall
	GAS2	1009	0.1	0.1	0.6	12	0.2	0.2	0	22	77.7	0	
	GAS3	1008	0	0.1	0.1	2	0.1	0.1	2	22.2	77.5	0	
	GAS4	1008	0	0.1	0.1	2	0.2	0.2	0	22.2	77.4	0	
	BH1	1010	0	4.3	4.6	92	6.4	6.4	1	8	81.3	0	
	BH2	1009	0.1	0.1	0.1	2	2.2	2.2	0	19.4	78.3	0	
	BH3	1010	0.1	0.1	0.1	2	0.3	0.3	0	22	77.6	0	
	BH4	1011	0	24.1	33	660	12.5	17.90	0	4.4	59	0	
	BH6	1010	0.1	4.6	4.6	92	13.4	13.4	1	1.3	80.7	0	
	BH7	1010	0	0.1	0.9	18	0.7	1.4	0	21.3	77.9	0	
	BH8	1011	0	0.1	0.3	6	0.7	0.7	0	21.7	77.5	0	
	BH9	1011	0	0.1	1.2	24	1.4	1.9	0	21	77.4	0	
	BH10	1011	0.1	0.1	0.1	2	2.8	2.8	0	19.4	77.7	0	
	BH11	1011	0	0.1	0.1	2	10.4	10.4	0	14.1	75.4	0	
BH12	1010	0	0.1	0.1	2	7.9	7.9	0	13.1	78.9	0		
BH13	1011	0	0.1	0.1	2	2.1	2.3	0	17.8	80.1	0		
BH14	1009	0	0.1	0.1	2	0.1	0.4	1	21.6	78.1	0		
04/05/2018	GAS1	1022	0.1	0.3	0.3	6	0.9	0.9	3	20.4	78.4	0	0
	GAS2	1022	0	0.3	0.3	6	0.1	0.1	0	21.2	78.4	0	0
	GAS3	1022	0	0.3	0.3	6	0.1	0.1	0	21.2	78.4	0	0
	GAS4	1022	0	0.3	0.3	6	0.1	0.1	0	21.3	78.3	0	0
	BH1	1021	0.1	0.3	0.3	6	0.3	0.3	1	21.1	78.3	0	0
	BH2	1020	0	0.1	0.2	4	2.3	2.3	0	18.6	79	0	0
	BH3	1020	0	0.1	0.1	2	0.3	0.3	0	21.5	78.1	0	0
	BH4	1022	0.1	25.2	29.5	590	12.8	15.10	1	3.1	58.9	1	0
	BH6	1021	0.1	1.6	1.6	32	9.8	9.8	1	7.4	81.2	0	0
	BH7	1021	0	0.3	0.6	12	0.1	0.4	0	21.3	78.3	0	0
	BH8	1022	0.1	0.3	0.4	8	1	1	0	20.7	78	0	0
	BH9	1022	0.1	0.3	1.1	22	1.2	1.6	0	20.1	78.4	0	0
	BH10	1022	0.1	0.2	0.3	6	4.2	4.2	1	17.3	78.4	0	0
	BH11	1022	0.1	0.2	0.3	6	10.2	10.2	1	13.2	76.4	0	0
BH12	1022	0	0.2	0.3	6	7.8	7.8	0	11.9	80.1	0	0	
BH13	1022	0	0.2	0.3	6	2.3	2.3	1	16.3	81.2	0	0	
BH14	1023	0	0.3	0.3	6	0.1	0.1	0	21.5	78.1	1	0	

Table A - 13.9 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, from May to June 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
28/05/2018	GAS1	1022	0.1	0	0	0	1.9	1.9	8	14.5	83.6	0	0
	GAS2	1022	0.1	0	0	0	0.3	0.3	2	19.1	80.6	1	0
	GAS3	1022	0	0	0	0	0.4	0.4	4	19.8	79.8	1	0
	GAS4	1023	0	0	0	0	0.2	0.2	2	20.4	79.4	0	0
	BH1	1021	0	0	0	0	0.1	0.1	1	20.7	79.2	0	0
	BH2	1021	0.2	0.1	0.1	2	1.9	1.9	2	18.6	79.5	0	0
	BH3	1021	0	0	0.1	2	1.9	2.1	2	16	82.1	0	0
	BH4	1023	0.1	36	38.8	776	18.3	20.90	4	0.3	45.4	0	0
	BH5	1021	0	0.1	0.1	2	0.2	0.40	0	20.8	79	0	0
	BH6	1020	0	1.2	1.2	24	9.6	9.6	1	7.9	81.2	0	0
	BH7	1022	0	0	0.2	4	0.5	0.9	2	20.6	79	0	0
	BH8	1023	0.1	0	0.1	2	3.5	3.5	3	17.5	79	0	0
	BH9	1023	0	0	0.8	16	1.8	2.1	4	19.2	79	0	0
	BH10	1023	0	0	0	0	4.1	4.1	5	16.9	78.9	0	0
	BH11	1023	0.1	0	0	0	10	10	7	13.1	76.9	0	0
	BH12	1022	0	0	0.2	4	10.6	10.6	7	8.5	80.9	0	0
	BH13	1024	0	0	0	0	4.8	4.8	9	12.7	82.6	0	0
BH14	1023	0.1	0	0	0	0.8	0.8	7	18.8	80.4	0	0	
BH15	1024	0	0	0.1	2	4.6	4.6	2	15	80.4	0	1.3	
BH16	1024	0	0	0	0	5.5	5.5	4	14.6	79.9	0	0	
BH17	1022	0	0	1	1	20	7.1	7.4	3	4.8	87.1	0	2.7
11/06/2018	GAS1	1020	0.2	0	0	0	4.5	4.5	3	6.6	88.9	2	0
	GAS2	1018	0	0	0	0	0.8	0.9	4	17.2	82	1	0
	GAS3	1020	0	0	0	0	0.7	0.7	4	18.6	80.7	2	0
	GAS4	1021	0.3	0	0	0	0.3	0.3	7	20	79.7	2	0
	BH1	1018	0.1	0.1	0.1	2	1.3	1.3	1	19.5	79.1	0	0
	BH2	1018	0.3	0.1	0.1	2	2.2	2.2	1	18.4	79.4	0	0
	BH3	1018	0.2	0	0.1	2	2.9	3	2	14.8	82.3	0	0
	BH4	1020	0.3	24.2	26.6	532	12.9	14.1	3	2.3	60.7	3	0
	BH5	1018	0	0.1	0.1	2	1.7	1.7	1	19	79.3	0	0
	BH6	1019	0.2	2.7	2.7	54	11.3	11.6	3	6.2	79.7	0	0
	BH7	1019	0.1	0.1	0.1	2	0.9	1.3	2	19.6	79.4	0	0
	BH8	1020	0.1	0.1	0.1	2	6.6	6.6	3	14.7	78.6	0	0
	BH9	1020	0.3	0	1.4	28	2.2	2.3	5	18.7	79.1	0	0
	BH10	1020	0.2	0	0	0	7.3	7.3	5	13.7	78.9	0	0
	BH11	1019	0.3	0	0	0	11.8	11.8	8	11.9	76.3	0	0
	BH12	1020	0.1	0	0.6	12	4.7	4.7	8	15.6	79.7	0	0
	BH13	1021	0.1	0	0	0	5.5	5.5	9	13.8	80.7	1	0
BH14	1021	0.1	0.1	0.1	2	6.6	6.6	3	14.7	78.6	0	0	
BH15	1021	0.1	0.1	0.1	2	10.5	10.5	4	5.7	83.7	1	1.4	
BH16	1021	0	0	0	0	9.7	9.7	3	11.5	78.7	1	0	
BH17	1020	0.1	4.6	4.6	92	10.5	10.8	2	0.5	84.5	0	0.4	

Table A - 13.10 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, June 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
18/06/2018	GAS1	1018	0.3	0	0	0	1.1	1.1	10	20.4	78.5	0	No VOC Analysis due to PID Malfunction
	GAS2	1018	0.3	0	0	0	0	0.1	2	21.5	78.5	1	
	GAS3	1017	0	0	0	0	0	0.2	2	21.5	78.4	1	
	GAS4	1018	0.1	0	0	0	0.1	0.1	2	21.5	78.4	0	
	BH1	1017	0.1	7.4	7.4	148	11.2	11.2	2	1.8	79.6	0	
	BH2	1016	0	0	0	0	3.9	3.9	1	16.6	79.5	0	
	BH3	1017	0	0	0	0	0.2	2.9	1	20.9	78.9	0	
	BH4	1018	0.2	21.2	24.4	488	12	13	3	1.2	65.6	0	
	BH5	1017	0.1	0	0.1	2	0.3	0.5	1	21	78.6	0	
	BH6	1017	0.1	0.1	0.4	8	1.1	1.1	2	19.9	79	0	
	BH7	1017	0	0	0.1	2	0.1	0.2	1	21	79	0	
	BH8	1018	0.1	0.1	0.4	8	0.4	0.5	1	20.8	78.8	0	
	BH9	1018	0.1	1.8	2.5	50	4	4	2	14	80.2	1	
	BH10	1018	0.1	0	0	0	4.7	4.7	3	16	79.3	0	
	BH11	1018	0.1	0	0.5	10	10.9	10.9	4	12.7	76.4	0	
	BH12	1017	0.1	3.5	3.5	70	8.2	8.2	6	7	81.2	0	
	BH13	1019	0.1	0	0	0	5.6	5.6	2	14.7	79.8	0	
BH14	1018	0.1	0	0	0	0.2	1.7	1	20.8	79.1	1		
BH15	1019	0.1	0	0	0	0.9	1.3	2	20.3	78.8	1		
BH16	1019	0.2	0.1	0.3	6	11.3	11.3	5	11	77.6	1		
BH17	1017	0	4.7	4.7	94	11.2	11.3	3	1.5	82.6	0		
25/06/2018	GAS1	1028	0.2	0	0.1	2	1.8	1.8	19	17.6	80.5	1	No VOC Analysis due to PID Malfunction
	GAS2	1028	0.2	0	0	0	0	0	4	20.4	79.6	2	
	GAS3	1027	0	0	0	0	0.1	0.1	4	20	79.9	2	
	GAS4	1029	0	0	0	0	0.1	0.1	3	20	79.9	3	
	BH1	1027	0.1	2	2.2	44	6	6	2	11.6	80.4	0	
	BH2	1027	0.3	0.1	0.1	2	2.1	2.1	2	18.8	78.9	0	
	BH3	1027	0	0.1	0.1	2	1.5	1.5	1	18.6	79.9	0	
	BH4	1029	0.2	22.3	26.1	522	10.8	10.9	3	0.3	66.6	1	
	BH5	1027	0.3	0.1	0.1	2	0.6	0.6	2	20.4	78.9	0	
	BH6	1027	0.3	0.3	0.4	8	3.6	3.6	3	16.7	79.3	0	
	BH7	1027	0	0	0.1	2	0.1	0.2	2	20.2	79.6	0	
	BH8	1029	0	0.2	0.2	4	2.3	2.3	3	18.5	79	2	
	BH9	1029	0.1	0.3	1.5	30	3.7	3.7	4	14.9	81	2	
	BH10	1029	0	0	0	0	8.8	8.8	4	11.5	79.8	2	
	BH11	1029	0.2	0	0	0	10.2	10.4	6	12.5	77.2	1	
	BH12	1028	0.1	0	0.7	14	2	2	6	18.8	79.2	1	
	BH13	1029	0	0	0	0	4.9	4.9	7	15.5	79.6	1	
BH14	1029	0	0	0.1	2	0.1	0.6	2	20.8	79.1	1		
BH15	1029	0	0	0	0	5	5.1	4	14	80.9	1		
BH16	1029	0	0	0	0	11.1	11.1	2	11.1	77.8	2		
BH17	1028	0.1	4.9	4.9	98	10.7	10.7	3	2.9	81.5	1		

Table A - 13.11 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
03/07/2018	GAS1	1024	0.2	0	0	0	0	1.8	2	21.5	78.5	2	No VOC Analysis due to PID Malfunction
	GAS2	1024	0.1	0	0	0	0.7	0.7	1	18.3	81	4	
	GAS3	1024	0.1	0	0	0	0.1	0.7	1	19.2	80.1	3	
	GAS4	1024	0	0	0	0	0.1	0.3	1	20.4	79.3	2	
	BH1	1021	0.1	0	2	40	1	6	1	20.3	78.7	2	
	BH2	1022	0.1	0	0.1	2	1.4	2.1	0	19.6	79	1	
	BH3	1022	0.1	0	0.1	2	0.9	1.5	0	19.7	79.4	0	
	BH4	1023	0.1	20.2	22.3	446	10.2	10.8	1	0.5	69.2	2	
	BH5	1022	0.1	0	0.1	2	0.6	0.7	0	20.5	78.3	0	
	BH6	1023	0.1	0.1	0.3	6	3.6	3	1	18.3	78.6	1	
	BH7	1024	0.1	0	0	0	0.1	2.5	1	17.1	80.5	1	
	BH8	1024	0.1	0.1	0.2	4	2.3	3.6	0	17.1	79.3	2	
	BH9	1023	0.1	0	0.3	6	3.7	8.2	1	13.1	78.7	1	
	BH10	1022	0.1	0	0	0	8.8	10.5	1	12.7	76.8	2	
	BH11	1024	0.1	5.8	5.8	116	10.2	11.8	2	2.9	79.5	3	
	BH12	1023	0.1	7.3	7.3	146	2	12.1	1	2.2	78.4	2	
	BH13	1024	0.1	0	0	0	4.9	5	3	16	79	2	
BH14	1022	0.1	0	0	0	0.1	0.1	1	21.3	78.6	2		
BH15	1022	0.1	0	0	0	4.6	5	2	15.3	80.1	2		
BH16	1022	0.1	0	0	0	11.1	11.4	1	11.5	77	2		
BH17	1023	0.1	4.9	6.7	134	10.7	11.1	1	3.5	78.6	2		
09/07/2018	GAS1	1032	0	0	0	0	0.2	0.2	1	21	78.8	2	No VOC Analysis due to PID Malfunction
	GAS2	1031	0	0	0	0	0.2	0.7	1	20.3	79.5	2	
	GAS3	1031	0	0	0	0	0.1	0.7	1	20.3	79.6	2	
	GAS4	1031	0.3	0	0	0	0	0.3	1	20.4	79.6	2	
	BH1	1030	0.6	0.1	0.1	2	1	1	0	20	20.3	0	
	BH2	1030	0	0.1	0.1	2	1.9	2.1	0	19.3	78.7	0	
	BH3	1031	0	0.1	0.2	4	4.5	4.5	0	12.3	83.2	0	
	BH4	1031	0.1	19.8	20.2	404	10.2	10.2	1	0.5	69.5	1	
	BH5	1031	0	0.1	0.1	2	0.7	0.7	1	19.9	79.4	1	
	BH6	1031	0	0.2	0.2	4	2.5	3	0	18.1	79.2	1	
	BH7	1031	0	0.1	0.1	2	0.1	2.5	1	20.7	79.1	1	
	BH8	1031	0.1	0.2	0.2	4	5	5.6	1	16.7	78.1	0	
	BH9	1031	0.1	0.1	0.1	2	4	8.2	2	17.2	78.8	1	
	BH10	1031	0	0.1	0.3	6	13.2	10.5	1	8.1	78.6	1	
	BH11	1031	0	0.1	5.8	116	10.3	11.8	1	13.2	76.5	2	
	BH12	1031	0	0.1	7.3	146	1.4	12.1	1	20	78.5	1	
	BH13	1031	0.1	0.1	0.1	2	5.3	5.3	1	16.9	77.8	1	
BH14	1031	0	0.1	0.2	4	0.4	0.6	1	20.8	78.7	1		
BH15	1032	0	0.1	0.1	2	4.8	4.8	1	15.4	79.8	0		
BH16	1032	0	0.1	0.1	2	12	12.4	1	11	76.9	1		
BH17	1032	0	0.6	6.7	134	7.5	11.1	3	13.4	78.4	2		

Table A - 13.12 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
16/07/2018	GAS1	1016	0	0	0.8	16	3.6	3.6	1	17.6	78.9	1	No VOC Analysis due to PID Malfunction
	GAS2	1015	0	0	0	0	0.4	0.5	1	20.4	79.3	1	
	GAS3	1015	0	0	0	0	0.4	0.4	1	20.5	79.2	2	
	GAS4	1015	0	0	0	0	0.2	0.2	1	20.6	79.2	1	
	BH1	1013	0.1	0.2	0.2	4	1.4	1.4	0	19.7	78.8	0	
	BH2	1013	0.1	0.1	0.2	4	2.3	2.3	0	18.9	78.6	0	
	BH3	1014	0	0.1	0.1	2	2.6	2.6	1	17	80.3	0	
	BH4	1015	0.4	19.6	19.8	396	10.9	11.4	0	0.4	69.1	0	
	BH5	1014	0	0.1	0.1	2	0.6	0.6	0	20.4	78.8	0	
	BH6	1015	0.1	0.1	1.1	22	0.5	0.7	0	20.4	79	0	
	BH7	1014	0	0.1	0.3	6	0.1	0.2	0	20.8	78.9	0	
	BH8	1014	0.1	0.4	0.4	8	4.8	4.8	0	16.1	78.7	0	
	BH9	1015	0	0.1	0.4	8	2.9	4.3	1	18	79.1	0	
	BH10	1015	0	0.1	0.1	2	6.9	6.9	1	13.4	79.6	0	
	BH11	1015	0.3	0.1	0.1	2	10.4	10.4	1	13.2	76.4	0	
	BH12	1015	0.1	0.1	0.2	4	3.5	3.5	1	18	78.4	1	
	BH13	1015	0	0	0.1	2	5.3	5.3	1	16.6	78	0	
BH14	1016	0	0	0	0	0.6	4.8	0	20	79.3	1		
BH15	1016	0.1	0	0	0	11.9	11.9	1	10.3	77.8	0		
BH16	1016	0	0	0	0	3.6	3.9	1	16.1	80.3	1		
BH17	1016	0	0	4.7	4.8	96	12.2	12.2	3	4.1	78.9	2	
23/07/2018	GS01	1014	0.2	0.1	0.1	2	2.8	2.8	1	17.9	79.3	1	No VOC Analysis due to PID Malfunction
	GS02	1015	0	0	0	0	0	2.5	1	20.3	79.7	1	
	GS03	1015	0.4	0	0	0	0.2	0.2	1	20	79.9	1	
	GS04	1015	0.5	0	0	0	0.2	0.2	1	19.9	79.9	2	
	BH1	1015	0	0.1	0.1	2	2	2	1	18.2	79.7	0	
	BH2	1015	0	0.1	0.1	2	2.2	2.2	1	18.5	79.2	0	
	BH3	1015	0	0.1	0.1	2	1.9	2	1	16.9	81.1	1	
	BH4	1016	0	18.8	19.7	394	10.4	10.4	1	0.5	70.4	2	
	BH5	1015	0	0.1	0.1	2	0.4	0.4	0	20.2	79.2	0	
	BH6	1015	0.1	0.1	0.1	2	0	0.1	0	20.6	79.3	0	
	BH7	1015	0	0	0	0	0.1	0.2	1	20.7	79.3	1	
	BH8	1016	0.2	0.5	0.5	10	4.6	4.6	1	15.3	79.6	1	
	BH9	1016	0.3	0.1	0.7	14	4.2	4.2	1	15.9	79.8	1	
	BH10	1016	0	0.1	0.1	2	13.6	13.7	1	6.1	80.3	1	
	BH11	1016	0.1	0.3	0.1	2	9.7	9.7	1	12	78.2	2	
	BH12	1016	0	0	0.1	2	1.7	1.7	1	18.9	79.4	1	
	BH13	1017	0.2	0	0	0	4.7	4.7	2	16.5	78.8	2	
BH14	1017	0.1	0	0	0	0.3	3.1	1	20.3	79.5	1		
BH15	1016	0	0	0.2	4	11.6	12.6	1	9.4	78.9	2		
BH16	1016	0	0	0.1	2	2.6	2.6	1	17.1	80.3	1		
BH17	1016	0	0	1.1	1.1	22	8.6	8.8	1	12.2	78.1	2	

Table A - 13.13 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, from July to August 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
30/07/2018	GS01	1007	0.3	0	0	0	1.9	1.9	0	19.3	78.7	0	0
	GS02	1007	0	0	0.1	2	0.1	0.1	0	21.5	78.4	0	0
	GS03	1007	0	0	0.1	2	0.1	0.1	1	21.5	78.3	0	0
	GS04	1007	0	0	0.1	2	0.2	0.2	0	21.4	78.4	0	0
	BH1	1006	0	0.1	0.1	2	0.2	1.4	0	21.1	78.6	0	0
	BH2	1005	0	0	0.1	2	2.2	2.2	1	18.9	78.7	0	0
	BH3	1005	0	0.1	0.1	2	0.7	0.8	1	20	79.2	0	0
	BH4	1007	0.1	18.6	18.6	372	10.1	10.2	1	0.3	71	0	0
	BH5	1005	0.2	0.2	0.2	4	0.2	0.3	0	21	78.8	0	0
	BH6	1006	0	0.1	0.1	2	0.1	0.1	0	20.7	79.2	0	0
	BH7	1006	0.1	0.1	0.1	2	0.2	0.2	0	20.4	79.3	0	0
	BH8	1007	0	0	0.3	6	0.3	0.8	0	21.1	78.6	0	0
	BH9	1007	0	0.2	1.1	22	2.6	2.7	0	17.4	79.8	0	0
	BH10	1007	0	0.1	0.1	2	12.7	12.7	1	7.2	80	0	0
	BH11	1006	0.2	0.1	0.2	4	10.7	10.7	1	11.1	78.2	0	0
	BH12	1006	0	0.1	0.7	14	0.4	0.6	0	20.4	79.1	0	0
	BH13	1008	0	0	0.1	2	4.6	4.7	1	16.4	78.9	0	0
BH14	1008	0	0	0.1	2	0.3	3.1	0	21	78.7	0	0	
BH15	1007	0	0	0.2	4	6.4	6.4	0	12.5	81	0	0	
BH16	1007	0	0	0.1	2	1.8	1.9	0	18.9	79.2	0	0	
BH17	1006	0	0	9.7	9.8	196	13.3	13.3	1	0.3	76.7	0	0
07/08/2018	GS01	1011	0.3	0	0.1	2	2.3	2.3	0	18.3	79.4	0	0
	GS02	1011	0	0	0	0	0.1	0.1	0	21.1	78.8	0	0
	GS03	1010	0	0	0	0	0.1	0.1	1	21.1	78.7	0	0.3
	GS04	1010	0	0	0	0	0.2	0.2	1	20.8	79	0	0
	BH1	1010	0.1	0.1	0.1	2	0.2	0.2	0	20.6	79	0	0
	BH2	1010	0	0.1	0.1	2	2.1	2.1	1	18.3	79.5	0	0
	BH3	1010	0	0.1	0.1	2	2.6	2.6	0	16.1	81.2	0	0
	BH4	1011	0.1	19.1	22	440	10.4	10.4	1	0.2	70.4	5	0
	BH5	1010	0.1	0.1	0.2	4	0.9	0.9	0	20	79	0	0
	BH6	1010	0	0	0.1	2	0.4	0.4	0	20.3	79.2	0	0
	BH7	1010	0.1	0.1	0.1	2	0.1	0.1	0	20.7	79.1	0	0
	BH8	1011	0	0.1	0.1	2	2.2	2.2	1	19.7	78.1	0	0
	BH9	1011	0.1	0.1	0.4	8	5.4	5.4	1	14.7	79.7	0	0
	BH10	1011	0	0.1	0.1	2	13.4	13.4	1	7	79.6	0	0
	BH11	1011	0	0.1	0.7	14	11.6	11.6	1	9.8	78.5	0	0
	BH12	1012	0	0.1	1.6	32	5.3	5.3	0	15.9	78.8	0	0
	BH13	1012	0	0.1	0.1	2	4.6	4.6	1	14.8	80.6	0	0
BH14	1012	0	0.1	0.1	2	0.3	1.6	0	21.1	78.6	0	0	
BH15	1012	0	0	0.1	2	9.4	9.7	1	10.9	79.6	0	0	
BH16	1011	0	0	0.1	2	2.9	3.2	1	17.2	79.8	0	0.3	
BH17	1011	0	0	4.5	4.6	92	12.3	12.4	1	7	78.1	0	0

Table A - 13.14 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, August 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
13/08/2018	GS01	1011	0	0	0	0	2.2	2.2	1	17.5	80.3	0	0
	GS02	1011	0	0	0	0	0.1	0.1	2	20.8	79.1	0	2.1
	GS03	1011	0	0	0	0	0.1	0.1	1	20.6	79.3	0	0
	GS04	1011	0	0	0	0	0.3	0.3	1	20.4	79.3	0	0
	BH1	1009	0	0	0	0	2.4	2.4	0	18.4	79.2	0	0
	BH2	1008	0	0.1	0.1	2	1.9	1.9	0	19.3	78.8	0	0
	BH3	1009	0	0	0	0	1.7	1.7	0	18.3	79.9	0	0
	BH4	1009	0	18.5	20.3	406	11	11.2	0	0.3	70.2	0	0
	BH5	1008	0	0.1	0.1	2	0.5	0.5	0	20.4	78.9	0	0
	BH6	1009	0.2	0	0	0	0.1	0.1	0	21.1	78.9	0	0
	BH7	1009	0	0	0	0	0.1	0.1	0	20.9	78.9	0	0
	BH8	1010	0	0	0	0	2.5	2.5	0	18.4	79.1	0	0
	BH9	1010	0	0	0.9	18	4.7	4.7	0	15.6	79.7	0	0
	BH10	1010	0	0	0	0	13.3	13.3	0	9.3	76.9	0	0
	BH11	1010	0	0	0	0	12.1	12.1	0	11	76.9	0	0
	BH12	1010	0	0.8	0.8	16	6.5	6.5	0	15.2	77.5	0	0
	BH13	1011	0.1	0	0	0	0.1	3.9	0	21.1	78.9	0	0
BH14	1011	0	0	0	0	0.5	1.4	1	20.4	79.2	0	0	
BH15	1010	0	0	0	0	10.4	10.4	0	10.1	79.6	0	0	
BH16	1011	0	0	0	0	1.2	1.4	0	19.7	79.1	0	0	
BH17	1009	0	0	3.7	3.7	74	11.7	11.7	0	9.3	75.3	0	0
20/08/2018	GS01	1018	0	0	0	0	1.7	1.7	0	19	79.4	0	0
	GS02	1020	0	0	0	0	0.2	0.2	0	21.1	78.8	0	0
	GS03	1019	0	0	0	0	0.1	0.1	0	21.1	78.8	0	0
	GS04	1019	0	0	0	0	0.2	0.2	0	20.9	78.9	0	0
	BH1	1019	0	0	0	0	0.5	0.6	0	20.9	78.6	0	0
	BH2	1019	0	0	0	0	2.6	2.7	0	18.7	78.6	0	0
	BH3	1019	0	0	0	0	1.7	1.7	0	18.4	79.9	0	0
	BH4	1020	0	17.9	21.3	426	10.9	10.9	0	0.3	70.9	0	0
	BH5	1019	0	0	0	0	0.4	0.2	0	20.7	79	0	0
	BH6	1019	0	0	0	0	0.1	0.1	0	21.3	76.6	0	0
	BH7	1019	0	0	0	0	0.1	0.1	0	21.3	78.6	0	0
	BH8	1020	0	0	0.1	2	3	3	0	17.2	79.8	0	0
	BH9	1020	0	0	0.7	14	3.9	3.9	0	17.8	78.4	0	0
	BH10	1020	0	0	0	0	10.1	10.1	0	11.9	78	0	0
	BH11	1017	0	0	0	0	10.7	10.7	0	12.8	76.5	0	0
	BH12	1020	0	0	0.1	2	4.6	4.6	0	17.9	77.6	0	0
	BH13	1021	0	0	0	0	4.8	4.8	0	15	80.1	0	0
BH14	1020	0	0	0	0	0.3	2.7	0	21.1	78.6	0	0	
BH15	1020	0	0	0	0	10.9	10.9	0	9.9	79.2	0	0	
BH16	1020	0	0	0	0	2	2	0	18.5	79.4	0	0	
BH17	1019	0	0	0.4	0.4	8	5.7	5.7	0	13.1	80.7	0	0

Table A - 13.15 Results of Landfill Gas Monitoring on GasWells GS01 to GS04 and Groundwater/Gas Wells BH1 -BH17 at Barnegeernagh Cove, Skerries, County Dublin, August 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
27/08/2018	BH1	1008	0	4	4	80	8.3	8.3	0	8	79.7	0	0
	BH2	1005	0	0	0	0	3.3	3.3	0	18.1	78.5	0	0
	BH3	1008	0	0	0	0	0.7	0.8	0	20	79.3	0	0
	BH4	1009	0	18.4	21.5	430	11.7	11.7	0	0.3	69.7	0	0
	BH5	1004	0	0	0	0	0.3	0.3	0	20.7	79	0	0
	BH6	1008	0	0	0.8	0	0.1	0.3	0	21.1	78.8	0	0
	BH7	1008	0	0	0	0	0.1	0.2	0	21.1	78.8	0	0
	BH8	1009	0	0	0.2	4	3.3	3.3	0	19.1	77.6	0	0
	BH9	1003	0	0	1.4	28	2.7	2.8	0	17.9	79.3	0	0
	BH10	1009	0	0	0	0	8.4	9.7	0	13	78.5	0	0
	BH11	1009	0	0	0.3	6	11.2	11.2	0	12.2	76.6	0	0
	BH12	1009	0	7.6	7.6	152	14.7	14.7	0	3.6	74.1	0	0
	BH13	1011	0	0	0	0	5	5	0	14	81	0	7.9
	BH14	1010	0	0	0	0	0.8	5.1	0	20.1	79.1	0	0
	BH15	1010	0	0	0	0	11.5	13.5	0	9.7	78.8	0	7.9
	BH16	1010	0	0	0	0	0.4	0.8	0	20.9	78.6	0	7.1
	BH17	1008	0	12	12	240	18.1	18.1	0	1.2	68.8	0	0
	GS01	1009	0	0	0	0	1.6	1.6	0	20	78.4	0	0
	GS02	1010	0	0	0	0	0.1	0.2	0	21.4	78.5	0	0
GS03	1010	0	0	0	0	0.1	0.1	0	21.3	78.6	0	0	
GS04	1010	0	0	0	0	0.1	0.1	0	21.3	78.7	0	0	

Table A - 13.16 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING					STEADY (60 SECONDS)	PEAK READING
03/09/2018	BH1	1025	0	0	0	0	0.9	0.9	0	21.4	78.7	0	0	
	BH2	1025	0	0	0	0	1.4	1.5	0	20.1	78.5	0	0	
	BH3	1025	0	0	0	0	0.6	0.7	0	20.8	78.5	0	0	
	BH4	1027	0.1	18.6	19.4	388	11.7	12	0	0.3	69.5	0	0	
	BH5	1026	0	0	0	0	3.3	3.3	0	17.5	79.2	0	0	
	BH6	1025	0	0	0	0	0.1	0.1	0	21.5	78.4	0	0	
	BH7	1025	0	0	0	0	0.1	0.1	0	21.4	78.6	0	0	
	BH8	1026	0	0	0	0.2	4	1.3	1.4	0	19.9	78.8	0	0
	BH9	1027	0	0	0	0.6	12	4.4	4.5	0	17	78.6	0	0
	BH10													
	BH11	1026	0	0	0	0	10.7	11	0	12.9	76.4	0	0	
	BH12	1024	0	0	0	0.6	12	4.5	4.5	0	16.1	79.3	0	0
	BH13	1027	0	0	0	0	5.4	5.4	0	12.4	82.3	0	0	
	BH14	1027	0	0	0	0	0.3	1.6	0	21.3	78.4	0	0	
	BH15	1027	0	0	0	0.1	2	11.5	15.1	0	10.1	78.4	0	0
	BH16	1027	0	0	0	0	0	1.7	1.7	0	19.2	79.1	0	0
	BH17	1026	0	3.4	3.5	70	11.2	11.3	0	12.1	73.3	0	0	
GS01	1027	0	0	0	0	1.7	1.7	0	19.3	79.9	0	0		
GS02	1027	0	0	0	0	0.2	0.2	0	21.2	78.7	0	0		
GS03	1027	0	0	0	0	0.1	0.1	0	21.2	78.7	0	0		
GS04	1026	0	0	0	0	0.3	0.3	0	20.8	78.9	0	0		

Table A - 13.17 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING					
10/09/2018	BH1	1017	0	6.5	6.5	230	11.4	11.4	1	20	80.1	0	0
	BH2	1017	0	0	0	0	3.4	3.4	1	18.3	78.3	0	0
	BH3	1017	0	0	0	0	0.5	0.5	0	21.1	78.3	0	0
	BH4	1018	0.1	20.4	22.8	456	10.6	10.9	1	0.2	68.8	0	0
	BH5	1015	0	0	0	0	0.3	0.4	0	21.1	78.6	0	0
	BH6	1017	0	0.1	0.3	6	6.6	6.6	0	11.1	82.2	0	0
	BH7	1017	0	0	0.1	2	0.1	0.5	0	22	77.9	0	0
	BH8	1018	0	0	0.2	4	0.6	0.6	0	21.5	77.9	0	0
	BH9	1018	0	0	0.7	14	4.1	4.2	0	16.9	79	0	0
	BH10												
	BH11	1018	0	0	0	0	9.6	9.7	0	13.8	76.6	1	0
	BH12	1018	0	0.2	0.5	10	5.5	5.5	0	16.5	77.8	0	0
	BH13	1018	0	0	0	0	5.5	5.7	0	11.7	82.9	0	0
	BH14	1018	0	0	0	0	0.2	0.6	1	21.7	78.1	0	0
	BH15	1018	0.1	0	0	0	10	10	1	10.3	79.8	0	0
	BH16	1017	0	0	0	0	2	2	1	19.7	78.3	0	0
	BH17	1017	0	2.2	2.3	46	7.8	7.9	1	15.3	74.7	0	0
	GS01	1019	0	0	0	0	0.9	0.9	1	21	78.2	0	0
GS02	1018	0	0	0	0	0.1	0.2	1	21.8	78.1	1	0	
GS03	1015	0	0	0	0	0.1	0.1	0	21.7	78.2	1	0	
GS04	1018	0	0	0	0	0.1	0.1	1	21.7	78.2	0	0	

Table A - 13.18 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	CEL	STEADY (60 SECONDS)	PEAK READING					STEADY (60 SECONDS)	PEAK READING
17/09/2018	BH1	1007	0.1	4.6	4.6	92	10.4	10.4	1	3.5	81.5	1		
	BH2	1007	0.1	0	0	0	3.2	3.2	1	18.6	78.2	0		
	BH3	1008	0.2	0	0	0	1.4	1.4	1	19.2	79.4	0		
	BH4	1008	0.2	20.9	24.2	484	10.7	11.5	2	0.2	68.1	1	0	
	BH5	1008	0	0	0	0	2.7	2.7	1	18.6	78.7	0	0	
	BH6	1007	0.2	2.6	2.7	54	11.4	11.6	1	1.3	84.6	1	0	
	BH7	1007	0.2	0	0	0	0.1	0.3	1	21.6	78.3	0	0	
	BH8	1007	0.1	0.2	0.6	12	1.6	1.7	0	19.1	79.2	1	0	
	BH9	1007	0.1	3.5	3.5	70	8.7	8.7	1	7.3	80.5	0	0	
	BH10													
	BH11	1008	0.1	0	0	0	8.8	8.9	1	14.2	77.1	0	0	
	BH12	1007	0.2	0	0	0	4	4	1	18.1	77.9	0	0	
	BH13	1007	0.2	0	0	0	5.4	5.4	2	10.8	83.7	0	0	
	BH14	1007	0	0	0	0	0.1	4.3	2	21.4	78.5	1	0	
	BH15	1007	0.2	0	0	0	9.6	9.6	1	9.8	80.6	1	0	
	BH16	1007	0.1	0	0	0	2.6	3.1	1	18	79.3	0	0	
	BH17	1005	0	2.6	2.6	52	8.5	8.5	1	11.7	77.2	1	0	
	GS01	1005	0.2	0	0	0	1	1	1	20.6	78.5	1	0	
GS02	1006	0.1	0	0	0	0.1	0.1	2	21.5	78.5	0	0		
GS03	1006	0	0	0	0	0.1	0.2	2	21.4	78.5	1	0		
GS04	1004	0	0	0	0	0.1	0.2	1	21.4	78.5	1	0		

Table A - 13.19 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
24/09/2018	BH1	1039	0.1	0	0.8	16	0.6	4.6	0	18.8	80.6	0	0	
	BH2	1038	0	0	0	0	1.8	1.8	0	21.3	76.9	0	0	
	BH3	1039	0.1	0	0	0	0.3	0.3	0	22.7	77	0	0	
	BH4	1040	0	13	13.1	262	11.2	11.2	0	0.2	75.6	1	0	
	BH5	1038	0.1	0	0	0	2	2.1	0	21	77	0	0	
	BH6	1039	0.2	0	0	0	11.4	11.6	1	1.3	84.6	1	0	
	BH7	1038	0.2	0	0	0	0.1	0.1	0	22.9	77	0	0	
	BH8	1040	0.1	0	0	0	0.2	0.3	0	22.8	77	0	0	
	BH9	1040	0	0	0	0	0.9	0.9	1	22	77.1	0	0	
	BH10													
	BH11	1040	0	0	0	0	8	8	0	14.9	77	0	0	
	BH12	1040	0	0	0	0.6	12	3.9	3.9	0	19.2	76.9	0	0
	BH13	1041	0.1	0	0	0	0	5.2	5.2	1	11.6	83.2	1	0
	BH14	1041	0	0	0	0	0	4.7	4.9	1	16.8	78.5	1	0
	BH15	1041	0.1	0	0	0	0	8.7	8.7	1	10.9	80.4	1	0
	BH16	1041	0.1	0	0	0	0	0.5	0.7	0	22.6	76.9	1	0
	BH17	1039	0.1	0	9.5	9.5	190	12.9	12.9	1	4.1	73.4	1	0
GS01	1040	0.1	0	0	0	0	1	1	1	21	78	1	0	
GS02	1040	0.2	0	0	0	0	0.1	0.1	1	22.5	77.4	1	0	
GS03	1040	0	0	0	0	0	0.1	0.1	1	22.7	77.2	1	0	
GS04	1040	0	0	0	0	0	0.1	0.1	1	22.7	77.2	1	0	

Table A - 13.20 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
01/10/2018	BH1	1029	0	7.2	7.2	144	9.2	9.2	1	4.6	78.9	0	0
	BH2	1029	0.1	0	0	0	2.1	2.1	0	19.8	78.1	0	0
	BH3	1026	0	0	0	0	0.6	0.6	0	21	78.4	0	0
	BH4	1030	0.2	20.8	23.1	46	11.8	12.4	1	0.2	67.3	0	7.7
	BH5	1028	0.1	0	0.1	2	1.8	2.2	0	19.8	78.3	0	0
	BH6	1029	0.1	0	0.1	2	0.4	0.4	0	21.4	78.3	0	0
	BH7	1026	0	0	0	0	0.1	0.1	0	22.9	78.4	0	0
	BH8	1030	0	0	0.2	4	0.3	0.3	1	21.5	78.3	0	12.7
	BH9	1030	0	0.5	0.1	22	1.6	1.8	1	21.5	78.3	0	7.7
	BH10												
	BH11	1030	0.1	0	0.2	4	8.3	8.3	0	14.6	77.1	0	4.2
	BH12	1030	0.1	0.6	0.6	12	6.4	6.4	0	13.2	79.8	0	0
	BH13	1031	0	0	0	0	5.6	6.7	1	9.3	85.2	0	9.2
	BH14	1030	0	0	0	0	1.8	4.5	1	19.8	78.4	0	11.4
	BH15	1030	0.1	0	0	0	8.8	8.8	1	10.6	80.5	0	4.8
	BH16	1030	0	0	0	0	0.6	0.7	1	20.9	78.4	0	7.3
	BH17	1029	0	12.1	12.1	242	13.4	13.4	0	3.6	70.9	0	0
GS01	1028	0	0	0	0	1.1	1.1	0	20.2	78.7	0	8.9	
GS02	1030	0.2	0	0	0	0.1	0.1	1	21.4	78.5	0	7.4	
GS03	1030	0.1	0	0	0	0.1	0.1	1	21.5	78.4	0	4.2	
GS04	1030	0	0	0	0	0.2	0.2	1	21.5	78.3	0	5.5	

Table A - 13.21 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING						
08/10/2018	BH1	1013	0.2	1.4	1.4	28	11.5	11.5	2	0.4	86.7	1		
	BH2	1013	0	0	0	0	2.6	2.6	2	18.7	78.7	1		
	BH3	1013	0	0	0	0	0.2	0.2	2	21	78.7	0		
	BH4	1014	0.2	24.7	28.8	572	12.2	13	2	0.2	62.8	1		
	BH5	1013	0	0	0	0	0.5	0.5	1	20.8	78.7	0		
	BH6	1013	0	3.9	3.9	78	10.5	10.5	2	2.9	82.6	1		
	BH7	1014	0	5.5	5.5	110	11.6	11.6	2	4.6	78.4	1		
	BH8	1015	0.1	0.3	0.4	8	0.6	0.7	2	20.5	78.6	1		
	BH9	1014	0.2	1.7	2.7	54	3.3	3.3	2	17.6	77.4	1		
	BH10													
	BH11	1015	0	0	0.7	14	7.8	7.8	2	14.4	77.8	1		
	BH12	1014	0.1	4.9	6.1	122	11	12.1	2	6.8	77.4	1		
	BH13	1015	0.2	0	0	0	5.7	5.7	2	9.3	85	1		
	BH14	1015	0.1	0	0	0	2.7	3.7	2	18.3	79	1		
	BH15	1012	0.1	0	0.1	2	9.5	9.8	2	8.8	81.8	1		
	BH16	1015	0.1	0	0	0	0.4	0.7	2	21	78.6	1		
	BH17	1014	0.1	0.9	1.2	24	4.4	4.6	1	17.9	76.9	1		
GS01	1014	0	0	0	0	0.4	0.4	2	21	78.6	1			
GS02	1014	0.1	0	0	0	0.1	0.1	2	21.4	78.5	1			
GS03	1014	0.1	0	0	0	0.1	0.1	2	21.4	78.5	2			
GS04	1014	0	0	0	0	0.1	0.1	3	21.4	78.5	1			

Table A - 13.22 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING						
15/10/2018	BH1	1014	0	0	0	0	0.6	0.6	1	20.8	78.6	0		
	BH2	1014	0.2	0	0	0	2.4	2.4	1	19.5	78.2	0		
	BH3	1014	0.1	0	0	0	0.8	0.8	1	20.3	78.9	0		
	BH4	1015	0.2	24.9	24.9	498	9.4	9.4	1	0.2	65.5	1		
	BH5	1015	0	0	0	0	2.2	2.2	0	19.6	78.2	0		
	BH6	1012	0.1	0	0	0	0.7	0.7	1	20.5	78.8	0		
	BH7	1015	0	0	0	0	0.4	0.4	1	21	78.6	1		
	BH8	1016	0.2	0.1	0.6	12	0	0.8	1	20.6	78.6	1		
	BH9	1016	0.1	2	3.5	70	6	6.2	1	15.3	76.1	1		
	BH10													
	BH11	1015	0.2	0	0	0	8	8	1	13.9	78.1	1		
	BH12	1015	0.1	0.1	0.4	8	4.7	4.7	1	16.3	78.9	0		
	BH13	1014	0	0	0	0	4	4	2	10.4	85.6	1		
	BH14	1016	0	0	0	0	0.2	2.1	1	21.3	78.5	1		
	BH15	1016	0	0	0	0	9.4	9.4	1	10.2	80.4	1		
	BH16	1016	0	0	0	0	2	2	2	18.6	78.4	1		
	BH17	1015	0	11.6	11.6	232	11.3	11.3	2	1.6	75.4	1		
GS01	1015	0	0	0	0	0.9	0.9	2	19.6	79.5	1			
GS02	1016	0.1	0	0	0	0.1	0.1	2	21.4	78.5	2			
GS03	1016	0	0	0	0	0.1	0.1	2	21.5	78.4	1			
GS04	1014	0	0	0	0	0.2	0.2	1	21.4	78.5	1			

Table A - 13.23 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING						
22/10/2018	BH1	1037	0	0	0	0	4.1	4.1	0	13	82.9	0		
	BH2	1039	0.2	0	0	0	2	2	0	19	79	1		
	BH3	1040	0	0	0	0	0.4	0.5	0	20.8	78.8	0		
	BH4	1041	0.2	30.9	30.9	618	12.2	13.7	1	0.2	56.7	0		
	BH5	1039	0	0	0	0	2.5	2.5	0	18.6	78.8	0		
	BH6	1039	0.2	0	0	0	4.1	4.1	0	16.1	79.8	0		
	BH7	1040	0	0	0	0	0.2	0.2	0	20.9	78.9	0		
	BH8	1039	0	0	0.1	2	0.2	0.2	0	21.1	78.7	0		
	BH9	1041	0.2		0.3	6	1.2	1.3	0	20.2	78.6	0		
	BH10													
	BH11	1041	0.1	0	0	0	7.7	7.7	1	14.5	77.8	1		
	BH12	1040	0.1	0.4	0.4	8	5.6	5.6	1	14.8	79.3	1		
	BH13	1041	0.1	0	0	0	5.5	5.5	1	8.8	85.8	0		
	BH14	1041	0	0	0	0	2.1	3.1	0	19.1	78.8	1		
	BH15	1039	0.1	0	0.1	2	8.2	8.2	1	11.8	80	0		
	BH16	1041	0.1	0	0	0	0.4	0.5	1	20.9	78.7	0		
	BH17	1040	0.1	1.4	1.4	28	6	6	1	14.7	78	0		
GS01	1041	0	0	0	0	0.9	0.9	1	20.3	78.7	1			
GS02	1041	0.2	0	0	0	0.1	0.1	1	21.3	78.6	0			
GS03	1041	0.1	0	0	0	0.1	0.1	1	21.3	78.6	0			
GS04	1041	0	0	0	0	0.1	0.1	1	21.3	78.6	0			

Table A - 13.24 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING					
30/10/2018	BH1	1001	0	0.1	0.1	2	0.9	0.9	0	21.2	77.8	0	0
	BH2	1000	0	0	0	0	2.6	2.6	0	19.2	78.3	0	0
	BH3	1000	0	0	0	0	0.9	0.9	0	20.5	78.7	0	0
	BH4	1001	0.1	43.1	52.6	1052	17.2	19.3	0	0.2	39.9	0	1.2
	BH5	1001	0	0	0	0	2.1	2.1	0	19.1	78.9	0	0
	BH6	1000	0	1.7	1.7	34	10.3	10.6	0	5.3	82.7	0	0
	BH7	1000	0.1	4.3	5.1	102	8.6	9.2	0	9.3	77.7	0	0
	BH8	1001	0	0	0.5	10	0.4	0.4	0	21	78.6	0	0
	BH9	999	0	0	2.4	48	3.7	3.7	0	17.3	78	0	0
	BH10												
	BH11	1001	0	0	0	0	8.3	8.3	0	14.7	76.9	0	0
	BH12	1001	0	0	0.3	6	6.7	6.7	0	17.3	76	0	0
	BH13	1001	0	0	0	0	6.1	6.2	0	7.8	86.1	0	0
	BH14	1001	0	0	0	0	0.4	1.3	0	21.4	78.3	0	0
	BH15	1001	0	0	0.3	6	8.1	8.2	0	11.8	80.1	0	0
	BH16	1001	0	0	0.1	2	3.4	3.4	1	17.4	79.2	0	0
	BH17	1001	0	7.2	7.3	146	9	9	0	9.7	74	0	0.2
GS01	1001	0	0	0	0	1.8	1.8	0	15.9	82.3	0	0	
GS02	1000	0	0	0	0	0.2	0.2	1	20.8	79	0	0	
GS03	1001	0	0	0	0	0.2	0.2	2	20.6	79.2	0	0	
GS04	1000	0	0	0	0	0.2	0.2	1	21	78.8	0	0	

Table A - 13.25 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING						
05/11/2018	BH1	1002	0	1	1	20	6.5	6.5	2	10.1	82.4	2		
	BH2	1001	0.1	0	0	0	2.1	2.2	1	19.1	78.8	0		
	BH3	1002	0	0	0	0	0.5	0.5	2	21.5	78	1		
	BH4	1002	0.2	38.8	38.8	776	14.2	14.3	2	0.2	46.8	2		
	BH5	1001	0	0	0	0	1.4	1.4	1	19.8	78.8	0		
	BH6	1002	0	0.1	0.2	4	4.5	4.5	2	7.9	86.5	2		
	BH7	1001	0	5	5	100	5.5	5.5	2	0.5	89	1		
	BH8	1002	0.2	0.8	0.8	16	1.8	1.8	1	19.5	78.9	1		
	BH9	1002	0.2	4.7	4.7	94	8.8	8.8	2	10	76.5	2		
	BH10													
	BH11	1002	0.1	0	0.1	2	2	14.8	1	14.8	77.3	1		
	BH12	1002	0.1	0.3	0.3	6	6.2	6.2	2	12	81.6	1		
	BH13	1002	0.1	0	0	0	4.1	4.2	2	8.4	87.5	1		
	BH14	1003	0	0	0	0	1.2	2.5	2	19.6	79.2	1		
	BH15	1002	0	0	0.3	6	9.4	9.9	2	8.5	82.1	1		
	BH16	1000	0	0	0	0	4	9.4	1	14.5	81.4	1		
	BH17	1002	0	9.3	9.3	186	11.6	11.6	2	6.4	72.7	1		
GS01	1001	0.1	0	0.1	2	0.8	0.8	2	21.3	78	1			
GS02	1002	0.1	0	0	0	0.1	0.1	1	21.9	77.9	1			
GS03	1001	0	0	0	0	0.1	0.1	1	22	77.9	1			
GS04	1001	0	0	0	0	0.1	0.1	2	22	77.9	2			

Table A - 13.26 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING					
13/11/2018	BH1	1014	0	0.2	0.2	4	1.4	1.4	1	1	76.9	1	
	BH2	1014	0	0	0	0	2.6	2.6	1	18.5	78.9	1	
	BH3	1014	0	0	0	0	0.2	0.2	0	22.2	77.6	1	
	BH4	1015	0.1	45.2	46.7	934	6.6	6.7	3	0.2	47.9	1	
	BH5	1014	0	0	0	0	0.3	0.3	1	21.9	77.8	1	
	BH6	1014	0	0.1	0.1	2	2.6	2.6	1	20	77.3	1	
	BH7	1014	0.1	0	0.1	2	0.1	0.2	1	22.5	77.4	0	
	BH8	1015	0.2	0	0.6	12	0.2	0.3	0	22.2	77.5	0	
	BH9	1015	0	0.2	1.5	30	0.8	0.9	0	21.8	77.3	0	
	BH10												
	BH11	1014	0	0	0.2	4	8.8	8.8	1	14.3	76.9	0	
	BH12	1014	0	0.8	0	0	4	4	0	19.8	75.5	1	
	BH13	1015	0	0	0	0	5.2	5.2	0	8	86.8	0	
	BH14	1015	0	0	0	0	0.2	0.4	1	22.2	77.6	0	
	BH15	1015	0	0	0.4	8	6.7	6.8	0	16.6	76.7	0	
	BH16	1015	0	0	0.1	2	0.2	0.4	1	22.2	77.6	0	
	BH17	1014	0	10.8	11	220	9.5	9.6	2	6.6	73	1	
	GS01	1015	0	0	0	0	0.3	0.3	0	22.1	77.6	0	
	GS02												
	GS03	1015	0	0	0	0	0.1	0.2	0	22.2	77.7	0	
GS04	1015	0	0	0	0	0.2	0.2	0	22.1	77.8	1		

Table A - 13.27 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
19/11/2018	BH1													
	BH2	1024	0.2	0	0	0	2	2	1	18.5	79.5	0		
	BH3	1024	0	0	0	0	2	2	0	18.8	79.2	0		
	BH4	1025	0.2	37.8	39.6	0.2	6.5	6.5	1	0.2	55.5	0		
	BH5	1024	0.1	0	0	0	1.9	1.9	0	19.5	78.6	0		
	BH6	1024	0.2	0	0	0	0.9	0.9	0	20.9	78.2	0		
	BH7	1024	0	0	0	0	1	1	0	20.8	78.1	0		
	BH8	1025	0.1	0	0	0	0.2	0.2	0	22.1	77.8	0		
	BH9	1025	0.2	0	0	22	0.5	0.7	0	21.7	77.8	0		
	BH10													
	BH11	1022	0	0	0	0	9	9.1	1	14.4	76.6	0		
	BH12	1025	0.1	0	0	4	2.3	2.3	1	19.6	78.1	0		
	BH13	1025	0	0	0	0	3.6	3.6	1	12.6	83.7	0		
	BH14	1025	0	0	0	0	0.1	0.2	1	22.1	77.8	0		
	BH15	1025	0	0	0	0.1	2	7.4	7.4	1	13.6	78.9	0	
	BH16	1025	0	0	0	0	2	2	0	18.7	79.3	0		
	BH17	1025	0.1	10.6	10.6	212	13.4	13.4	1	3	73.1	0		
GS01	1025	0	0	0	0	3.3	3.3	1	17.4	79.3	0			
GS02														
GS03	1022	0.1	0	0	0	0.1	0.1	0	22.2	77.7	0			
GS04	1025	0	0	0	0	0.2	0.2	1	22	77.8	0			

Table A - 13.28 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
26/11/2018	BH1	1015	0.1	0	0	0	0.3	0.3	1	21.8	77.9	0	0
	BH2	1015	0.1	0	0	0	2.2	2.2	1	19.2	78.6	0	0
	BH3	1015	0	0	0	0	1.2	1.2	1	20.1	78.8	0	0
	BH4	1016	0.1	44.7	45	90	5.9	5.9	1	0.2	49.1	0	5.2
	BH5	1012	0.1	0	0	0	0.7	0.7	1	21	78.3	0	0
	BH6	1015	0.1	0	0	0	1.2	1.2	1	20.3	78.6	0	0
	BH7	1015	0.1	1.7	0.7	34	2.8	2.8	0	17.6	77.9	0	0
	BH8	1014	0	0	0	10	0.7	0.7	0	21.8	77.5	0	4.2
	BH9	1016	0.1	1.4	2.5	50	1.6	1.7	1	20.2	76.7	0	4.2
	BH10												
	BH11	1015	0	0	0.5	10	9	9.1	1	14.5	76.5	0	3.2
	BH12	1016	0	5.9	5.9	118	7.6	7.6	1	0.6	85.9	0	5
	BH13	1016	0	0	0	0	4.5	4.5	1	9.7	85.8	0	2.8
	BH14	1016	0	0	0	0	0.1	0.2	1	22.1	77.8	0	2.4
	BH15	1016	0	0	0.1	2	6.2	6.3	1	16	77.8	0	5.8
	BH16	1016	0.1	0	0	0	3.8	3.8	1	15.6	80.5	0	4.6
	BH17	1015	0	10.4	10.4	208	12.4	12.4	1	3.2	73.9	0	5.8
	GS01	1015	0	0	0	0	3.9	3.9	1	15.7	80.4	0	4.2
GS02													
GS03	1013	0	0	0	0	0.1	0.5	0	22	77.8	0	3.2	
GS04	1015	0	0	0	0	0.2	0.2	0	21.9	77.9	0	3	

Table A - 13.29 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, December 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
03/12/2018	BH1	997	0.1	0	0	0	0.1	0.1	0	22.1	77.8	0	1.8	
	BH2	997	0.1	0	0	0	2.6	2.7	0	18.7	78.8	0	1	
	BH3	997	0.1	0	0	0	0.4	0.5	0	21.4	78.2	0	1.6	
	BH4	998	0	52.9	54.2	108.4	6.3	6.3	0	0.2	40.6	0	3.2	
	BH5	996	0	0	0	0	1.5	1.7	0	19.7	78.8	0	0	
	BH6	995	0	0.2	0.3	6	1.8	1.9	0	20.2	77.8	0	2.6	
	BH7	997	0	0	0	0	0.1	0.1	0	22.1	77.7	0	3	
	BH8	999	0.1	0	0.2	4	0.8	0.9	0	21.2	78	0	4.8	
	BH9	998	0	0	0.2	24	1	1	0	20.8	78.2	0	3.8	
	BH10													
	BH11	998	0	0	0	0	9.5	9.5	1	13.7	76.8	0	0.4	
	BH12	998	0.1	0	0	0.2	4	5.7	5.7	1	3.5	90.8	0	4.6
	BH13	999	0	0	0	0	3.4	3.4	1	9.6	87	0	1.6	
	BH14	1000	0.1	0	0	0	0.1	0.2	1	21.8	78.1	0	1.2	
	BH15	999	0.1	0	0	0	6.6	6.6	0	16.2	77.2	0	0	
	BH16	999	0.1	0	0	0	0.9	1.3	0	20.5	78.6	0	1.2	
	BH17	998	0	15.4	15.4	308	11	11	0	1.5	72	0	3.4	
GS01	997	0	0	0	0	1	1	0	21.2	77.8	0	1.2		
GS02														
GS03	999	0.1	0	0	0	0.1	0.1	0	22	77.9	0	1.6		
GS04	999	0	0	0	0	0.1	0.1	0	22.1	77.9	0	1.9		

Table A - 13.30 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, December 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	0.1	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
11/12/2018	BH1	1018	0.1	0.2	0.2	4	0.4	0.4	1	21.1	78.3	0	0
	BH2	1016	0	0	0	0	2.6	2.6	1	18.5	78.9	0	0.4
	BH3	1018	0	0	0	0	0.7	0.7	1	20	79.3	0	0.2
	BH4	1018	0	51.3	53.2	1064	5.9	5.9	0	0.3	42.5	0	0
	BH5	1016	0	0	0	0	1.1	1.2	1	20.1	78.8	0	0.2
	BH6	1018	0	2.8	2.8	56	5.1	5.1	1	8.4	83.7	0	0
	BH7	1018	0.1	3.9	3.9	78	8.7	8.7	1	7.9	79.4	0	0
	BH8	1018	0	0	0.8	16	0.3	0.3	0	21.8	77.8	0	0.1
	BH9	1018	0	0	2.4	48	0.5	0.6	0	21.7	77.8	0	0
	BH10												
	BH11	1018	0	0	0.1	2	8.7	8.7	0	15.2	76.1	0	0.2
	BH12	1019	0	0	0.4	8	5.7	5.7	0	7.6	86.7	0	0.4
	BH13	1018	0	0	0.1	2	3.4	3.4	0	11.4	85.2	0	0
	BH14	1018	0	0	0.1	2	0.1	0.3	1	21.8	78.1	0	0.2
	BH15	1018	0	0	0.3	6	6.2	6.2	0	15.2	78.6	0	0
	BH16	1016	0	0	0.1	2	2.2	2.2	0	19.4	78.5	0	0.7
	BH17	1018	0	6.8	6.8	136	6.5	6.5	0	9.8	76.8	0	0.2
	GS01	1019	0	0	0.2	4	0.5	0.5	0	21.5	78	0	0.1
GS02	1018	0	0	0	0	0.1	0.2	0	21.8	78.1	0	0.3	
GS03	1018	0	0	0	0	0.1	0.1	0	21.8	78.1	0	0.1	
GS04	1018	0	0	0	0	0.1	0.1	0	21.7	78.1	0	0.4	

Table A - 13.31 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, December 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING					
17/12/2018	BH1	1010	0	0.3	0.3	6	1.4	1.7	0	20	78.3	0	0
	BH2	1009	0	0	0	0	3	3	0	18.5	78.5	0	0
	BH3	1010	0.1	0	0	0	0.1	0.1	0	21.6	78.4	0	0
	BH4	1010	0	54.5	65.9	1318	6.1	7.1	0	0.2	39.2	0	0.5
	BH5	1009	0	0	0	0	2.1	2.1	0	19.4	78.4	0	0
	BH6	1009	0	0.1	0.2	4	2.7	2.7	0	19.5	77.7	0	0.2
	BH7	1008	0	11.9	1.9	238	11	11	1	1.3	75.8	0	0
	BH8	1010	0	0	0	8	0.2	0.2	0	22	77.8	0	0.1
	BH9	1010	0.1	0	2.6	52	0.4	0.5	0	21.7	77.9	0	0.1
	BH10												
	BH11	1010	0	0	0.1	2	2.3	2.3	0	20.4	77.2	0	0.1
	BH12	1010	0.1	0	0	4	4.9	4.9	0	5.8	89.2	0	0.3
	BH13	1010	0	0	0	0	3	3	0	16.1	80.9	0	0.3
	BH14	1010	0	0	0	0	0.1	0.1	0	22.1	77.9	0	0.1
	BH15	1010	0.1	0	0	2	6.5	6.5	0	15.7	77.7	0	0
	BH16	1010	0	0	0	0	1	1	0	20.2	78.7	0	0.4
	BH17	1010	0	0	0.3	0.7	14	4.6	4.6	0	10.8	84.3	0
GS01	1010	0	0	0	0	0.3	0.3	0	21.9	77.9	0	0	
GS02	1010	0.1	0	0	0	0	0	0	22.1	77.9	0	0	
GS03	1010	0.1	0	0	0	0	0	0	22.1	77.9	0	0.1	
GS04	1010	0.1	0	0	0	0	0	0	22	77.9	0	0.3	

Table A - 13.32 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, January 2019

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING						
08/01/2019	BH1	1033	0	0.3	0.3	6	0.9	0.9	0	21	77.9	0	0	
	BH2	1033	0	0	0.1	2	3.3	3.3	0	18.2	78.4	0	0	
	BH3	1033	0	0	0	0	0	0.2	0.3	0	21.6	78.2	0	0
	BH4	1034	0	50.5	54.6	100	7.9	7.9	0	0.3	41.2	0	0.1	
	BH5	1033	0	0	0	0	2.2	2.2	1	19.6	78.1	0	0	
	BH6	1033	0	0.5	0.5	10	3.1	3.1	0	18.8	77.7	0	0	
	BH7	1032	0	0	0.2	4	0	0.2	0	22.2	77.7	0	0	
	BH8	1034	0	0	0.7	16	0.1	0.4	0	22.1	77.7	0	0	
	BH9	1034	0.2	0	3.5	70	0.6	1	0	21.8	77.6	0	0	
	BH10													
	BH11	1034	0	0	0.2	4	7.9	7.9	0	15.8	76.2	0	0	
	BH12	1034	0	0.1	8.4	168	6.6	8	0	9.6	83.9	0	0	
	BH13													
	BH14	1034	0.2	0	0	0	0.1	0.2	0	22	77.9	0	0	
	BH15	1034	0	0	0.3	6	6.6	6.6	0	11.8	81.6	0	0	
	BH16	1034	0	0	0	0	0.2	0.4	0	21.9	77.9	0	0	
	BH17	1034	0	10.8	10.8	216	10.5	10.5	0	5.4	79.3	0	0	
GS01	1034	0	0	0	0	0.6	0.6	0	21.5	77.9	0	0		
GS02	1033	0	0	0	0	0.1	0.1	0	22	77.9	0	0		
GS03	1034	0	0	0	0	0	0.1	0	22	77.9	0	0		
GS04	1034	0	0	0	0	0.1	0.1	0	22	77.9	0	0		

Table A - 13.33 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, January 2019

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
14/01/2019	BH1	1022	0	0.6	0.8	16	3.6	4	0	16.3	79.4	0	0
	BH2	1023	0	0	0	0	2.6	2.6	0	19.8	77.6	0	0.3
	BH3	1024	0.1	0	0.1	2	0.2	0.3	0	22	77.8	0	0.2
	BH4	1024	0.1	57.4	73.6	472	10.3	10.3	1	0.2	32.1	0	0
	BH5	1024	0.1	0	0	0	2.9	2.9	0	19.6	77.5	0	0.1
	BH6	1024	0.2	0.8	0.8	16	2.8	2.8	0	18.6	77.7	0	0
	BH7	1024	0.1	0	0	4	0	0.1	0	22.1	77.8	0	0.1
	BH8	1024	0.1	0	0.4	8	0.1	0.2	0	22	77.9	0	0.3
	BH9	1024	0.2	0	1.3	26	0.6	0.9	0	21.7	77.7	0	0.2
	BH10												
	BH11	1024	0.2	0	0.1	2	8	8	0	15.5	76.5	0	0.2
	BH12	1024	0.2	0	2.9	58	6.8	6.8	0	10.3	82.8	0	0.4
	BH13	1024	0	0	0	0	3.7	3.7	0	15.6	80.7	0	0.3
	BH14	1024	0	0	0.1	2	0	0	0	21.2	80.2	0	0
	BH15	1023	0	0	0.1	2	6.9	6.9	0	11.5	81.6	0	0
	BH16	1024	0.2	0	0	0	0.2	1.1	0	21.9	77.8	0	0.5
	BH17	1024	0.2	17.6	17.8	356	13.6	13.7	0	1.6	67.1	0	0
	GS01	1024	0	0	0	0	0.7	0.7	0	21.7	77.6	0	0.1
GS02	1024	0	0	0	0	0.1	0.1	0	22.1	77.9	0	0	
GS03	1024	0	0	0	0	0	0	0	22.2	77.7	0	0	
GS04	1024	0	0	0	0	0	0	0	22.2	77.7	0	0	

Table A - 13.34 Results of Landfill Gas Monitoring on Gas Wells GS01 to GS04 and Groundwater/Gas Wells BH1 - BH17 at Barnegeernagh Cove, Skerries, County Dublin, January 2019

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING					
21/01/2019	BH1	1019	0.1	0.9	0.9	18	7.8	7.8	0	6.2	85.1	0	0
	BH2	1020	0	0	0	0	2.9	2.9	0	19.9	77.3	0	0.2
	BH3	1016	0.1	0	0	0	0.4	0.5	0	21.8	77.8	0	0.1
	BH4	1018	0.1	65.1	67.7	1354	10.9	10.9	0	0.2	23.8	0	0
	BH5	1020	0	0	0	0	2.1	2.2	0	20.5	77.4	0	0
	BH6	1019	0.1	2.1	2.1	42	4.5	4.5	0	11.2	82.2	0	0
	BH7	1019	0.1	6.7	6.7	134	13.3	13.3	0	0.2	79.9	0	0
	BH8	1019	0.1	0	0.5	10	0.2	0.2	0	22	77.8	0	0
	BH9	1019	0.1	0	1	36	0.5	0.6	0	21.7	77.8	0	0
	BH10												
	BH11	1019	0.1	0	0.1	2	7.7	7.7	0	15.9	76.4	0	0.2
	BH12	1019	0.2	0	0.4	8	7	7	0	10.2	82.8	0	0.3
	BH13	1019	0.2	0	0	0	4.7	4.7	0	9.1	86.2	0	0
	BH14	1019	0.1	0	0.1	2	0.1	0.2	0	22.1	77.8	0	0
	BH15	1018	0.1	0	0.1	2	6.7	6.7	0	11.7	81.6	0	0
	BH16	1018	0.1	0	0	0	1.7	2.2	0	20.6	77.7	0	0
	BH17	1019	0.1	8.8	9	180	9.4	9.4	0	10	71.8	0	0
GS01	1020	0.1	0	0	0	0.6	0.6	0	22	77.5	0	0.1	
GS02	1020	0.1	0	0	0	0.1	0.1	0	22.5	77.4	0	0	
GS03													
GS04	1020	0	0	0	0	0.1	0.1	0	22.5	77.4	0	0	

**LANDFILL GAS MONITORING
RESULTS
FOR RESIDENCES & SERVICES
(TABLES A13.35 TO A13 .67)**

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Table A - 13.35 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, from September to December 2017

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
18/09/2017	House 27 (Radon Sump)	1010	0	0	0	0	3	21	79	0	0
	House 28 (Radon Sump)	1010	0	0	0	0	3	21.2	78.8	0	0
	House 29 (Radon Sump)	1010	0	0	0	0	3	22	78	0	0
	House 30 (Radon Sump)	1010	0	0	0	0	3	21.5	78.5	1	0
	House 31 (Radon Sump)	1010	0	0	0	0	3	21.5	78.5	1	0
	House 32 (Radon Sump)	1010	0	0	0	0	2	21.8	78.2	0	0
	House 33 (Radon Sump)	1010	0	0	0	0	3	21.7	78.3	0	0
	House 34 (Radon Sump)	1010	0	0	0	0	3	21.6	78.4	1	0
23/11/2017	House 25 (Radon Sump)	995	0	0	0.1	0.2	1	22	77.9	0	0
	House 26 (Radon Sump)	995	0	0	0.1	0.1	0	22	77.9	0	0
	House 27 (Radon Sump)	995	0	0	0.1	0.1	1	22.1	77.8	0	0
	House 31 (Radon Sump)	996	0	0	0.1	0.1	1	22.2	77.7	0	0
24/11/2017	ST1 (Storm Drain)	1009	0	0	0.1	0.2	0	21.2	78.7	0	0
	ST2 (Storm Drain)	1009	0	0	0.1	0.2	0	21.6	78.3	0	0
	House 25 (Water Mains Meter)	1009	0	0.1	0.1	0.2	0	21.4	78.5	0	0
	House 26 (Water Mains Meter)	1009	0	0	0.1	0.2	0	21.3	78.6	0	1.6
	House 27 (Water Mains Meter)	1009	0	0	0.1	0.1	0	21.4	78.5	0	0
	House 28 (Water Mains Meter)	1009	0	0	0.1	0.1	0	21.4	78.5	0	0
	House 29 (Water Mains Meter)	1009	0	0	0.1	0.1	1	21.5	78.4	0	1.1
	House 30 (Water Mains Meter)	1009	0	0	0.1	0.1	1	21.6	78.3	0	5
	House 31 (Water Mains Meter)	1009	0	0	0.1	0.1	2	21.6	78.3	0	0.5
	House 32 (Water Mains Meter)	1009	0	0	0.1	0.1	2	21.7	78.2	0	1
House 33 (Water Mains Meter)	1009	0	0	0.1	0.1	0	21.7	78.2	0	0	
06/12/2017	House 25 (Radon Sump)	1011	0	0	0.1	0.1	1	22	77.9	1	0
	House 26 (Radon Sump)	1011	0	0	0.1	0.1	1	21.9	78	1	0
	ST1 (Storm Drain)	1012	0	0	0.1	0.1	1	21.4	78.5	2	0
	ST2 (Storm Drain)	1012	0	0	0.1	0.1	1	21.4	78.5	1	0
	House 25 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.5	78.4	0	0
	House 26 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.4	78.5	0	0.7
	House 27 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.3	78.6	0	2
	House 28 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.3	78.6	1	0.7
	House 29 (Water Mains Meter)	1012	0	0	0.1	0.1	2	21.2	78.7	1	2.8
	House 30 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.2	78.7	0	3.9
	House 31 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.2	78.7	1	10.3
	House 32 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.2	78.7	1	1.7
	House 33 (Water Mains Meter)	1012	0	0	0.1	0.1	1	21.3	78.6	1	0.3
House 34 (Water Mains Meter)	1012	0	0	0.1	0.1	2	21.3	78.6	0	2	

Table A - 13.36 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, from December 2017 to February 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
13/12/2017	House 25 (Radon Sump)	991	0	0	0.1	0.1	0	21.7	78.2	1	No VOC analysis due to heavy rainfall
	ST1 (Storm Drain)	991	0	0	0.1	0.1	1	21.7	78.2	1	
	ST2 (Storm Drain)	990	0	0	0.1	0.1	1	21.7	78.2	1	
	House 25 (Water Mains Meter)	990	0	0	0.1	0.1	0	22.1	77.8	0	
	House 26 (Water Mains Meter)	990	0	0	0.1	0.1	0	20.8	79.1	0	
	House 27 (Water Mains Meter)	990	0	0	0.1	0.1	1	21	78.9	0	
	House 28 (Water Mains Meter)	990	0	0	0.1	0.1	1	21.1	78.7	0	
	House 29 (Water Mains Meter)	990	0	0	0.1	0.1	0	21.2	78.7	0	
	House 30 (Water Mains Meter)	990	0	0	0.1	0.1	0	21.4	78.4	0	
	House 31 (Water Mains Meter)	990	0	0	0.1	0.1	0	21.7	78.2	0	
	House 32 (Water Mains Meter)	990	0	0	0.1	0.1	0	21.9	78	0	
	House 33 (Water Mains Meter)	990	0	0	0.1	0.1	1	22	77.9	0	
House 34 (Water Mains Meter)	990	0	0	0.1	0.1	1	22.1	77.8	0		
15/12/2017	House 26 (Radon Sump)	1004	0	0	0.1	0.2	1	20.9	79	0	No VOC analysis due to heavy rainfall
	House 27 (Radon Sump)	1004	0	0	0.1	0.1	1	21	78.9	0	
	House 28 (Radon Sump)	1004	0	0	0.1	0.1	1	21.1	78.8	0	
	House 30 (Radon Sump)	1005	0	0	0.1	0.1	1	21.1	78.8	0	
	House 31 (Radon Sump)	1005	0	0	0.1	0.1	1	20.9	79	0	
	House 32 (Radon Sump)	1005	0	0	0.1	0.1	0	21.2	78.7	0	
	House 33 (Radon Sump)	1005	0	0	0.1	0.1	1	21.3	78.6	0	
	House 34 (Radon Sump)	1005	0	0	0.1	0.1	1	21.4	78.5	0	
20/12/2017	House 25 (Radon Sump)	1034	0	0	0.1	0.1	1	22	77.9	1	0
	ST1 (Storm Drain)	1035	0	0	0.1	0.1	1	21.9	78	1	0
	ST2 (Storm Drain)	1035	0	0	0.1	0.1	1	21.7	78.2	1	0
	House 25 (Water Mains Meter)	1034	0	0	0	0.1	1	22	78	1	0
	House 26 (Water Mains Meter)	1035	0	0	0.1	0.1	1	22	77.9	1	2.4
	House 27 (Water Mains Meter)	1034	0	0	0.1	0.1	1	21.9	78	1	3.1
	House 28 (Water Mains Meter)	1034	0	0	0.1	0.1	2	21.9	78	1	1.9
	House 29 (Water Mains Meter)	1034	0	0	0.1	0.1	1	21.8	78.1	1	2.8
	House 30 (Water Mains Meter)	1034	0	0	0.1	0.1	1	21.8	78.1	1	4.1
	House 31 (Water Mains Meter)	1034	0	0	0.1	0.1	1	21.7	78.2	1	6.2
	House 32 (Water Mains Meter)	1035	0	0	0.1	0.1	1	21.7	78.2	1	0.3
	House 33 (Water Mains Meter)	1034	0	0	0.1	0.1	1	21.8	78.1	1	0
	House 34 (Water Mains Meter)	1035	0	0	0.1	0.1	1	21.9	78	1	0
14/02/2018	House 26 (Radon Sump)	991	0	0.2	0.1	0.3	1	21.2	78.7	0	0
	ST1 (Storm Drain)	991	0	0	0.1	0.3	0	21.2	78.7	0	0
	ST2 (Storm Drain)	991	0	0	0.1	0.1	0	21.3	78.6	1	0
	House 25 (Water Mains Meter)	991	0	0	0.1	0.1	0	21.9	78.2	0	0.2
	House 26 (Water Mains Meter)	992	0	0	0.1	0.1	0	21.9	78	0	2.3
	House 27 (Water Mains Meter)	991	0	0	0.1	0.1	1	21.8	78.1	0	2.5
	House 28 (Water Mains Meter)	991	0	0	0.1	0.1	0	21.8	78.1	0	3.3
	House 29 (Water Mains Meter)	992	0	0	0.1	0.1	1	21.8	78.1	1	1.8
	House 30 (Water Mains Meter)	992	0	0	0.1	0.1	0	21.7	78.2	1	6
	House 31 (Water Mains Meter)	992	0	0	0.1	0.1	0	21.6	78.3	1	7.6
	House 32 (Water Mains Meter)	992	0	0	0.1	0.1	1	21.5	78.4	0	1.1
	House 33 (Water Mains Meter)	991	0	0	0.1	0.1	0	21.5	78.4	1	0
	House 34 (Water Mains Meter)	991	0	0	0.1	0.1	0	21.4	78.5	0	0.1

Table A - 13.37 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, from April to May 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
24/04/2018	House 25 (Water Mains Meter)	1009	0.1	0.1	0.1	0.2	0	22.3	77.5	0	No VOC analysis due to heavy rainfall
	House 26 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	0	22	77.9	0	
	House 27 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	0	22.3	77.6	0	
	House 28 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	0	22.3	77.5	0	
	House 29 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	1	22	77.9	0	
	House 30 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	0	22.2	77.6	0	
	House 31 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	2	22.2	77.7	0	
	House 32 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	2	22.1	77.7	0	
	House 33 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	0	22.2	77.7	0	
	House 34 (Water Mains Meter)	1009	0.1	0.1	0.1	0.1	1	22.1	77.7	0	
04/05/2018	House 25 (Water Mains Meter)	1022	0.2	0.3	0.1	0.1	0	21.2	78.5	0	0
	House 26 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	1	21.4	78.3	0	1.6
	House 27 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	1	21.5	78.2	0	1.1
	House 28 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	1	21.5	78.2	0	0.2
	House 29 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	0	21.5	78.2	0	0.3
	House 30 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	0	21.5	78.2	0	1.1
	House 31 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	1	21.5	78.2	0	2.3
	House 32 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	0	21.5	78.1	0	0
	House 33 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	0	21.4	78.3	0	0
	House 34 (Water Mains Meter)	1022	0.3	0.3	0.1	0.1	0	21.4	78.2	0	0

Table A - 13.38 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, June 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
11/06/2018	House 25 (Radon Sump)	1020	0	0	0	0	4	22.1	77.9	1	0
	House 26 (Radon Sump)	1020	0	0	0	0	24	21.2	78.8	2	0
	House 27 (Radon Sump)	1020	0	0	0	0	3	21.2	78.8	1	0
	House 28 (Radon Sump)	1020	0	0	0	0	3	21.4	78.6	1	0
	House 29 (Radon Sump)	1020	0	0	0	0	3	22	78	1	0
	House 30 (Radon Sump)	1021	0	0	0	0	3	21.5	78.5	1	0
	House 31 (Radon Sump)	1020	0	0	0	0	3	21.6	78.4	1	0
	House 32 (Radon Sump)	1020	0	0	0	0	2	21.7	78.3	0	0
	House 33 (Radon Sump)	1020	0	0	0	0	3	21.8	78.2	1	0
	House 34 (Radon Sump)	1020	0	0	0	0	3	21.9	78.1	1	0
	House 52 (Radon Sump)	1019	0	0	0	0	7	21.7	78.2	0	0
	House 53 (Radon Sump)	1019	0	0	0	0	3	21.5	78.4	1	0
	House 54 (Radon Sump)	1019	0	0	0	0	3	21.6	78.4	1	0
	House 55 (Radon Sump)	1019	0	0	0	0	2	21.7	78.3	0	0
	House 56 (Radon Sump)	1020	0	0	0	0	4	21.7	78.3	1	0
	House 57 (Radon Sump)	1020	0	0	0	0	2	21.7	78.2	1	0
	House 58 (Radon Sump)	1020	0	0	0	0	1	21.8	78.1	0	0
	House 59 (Radon Sump)	1020	0	0	0	0	2	21.9	78.1	1	0
	House 60 (Radon Sump)	1020	0	0	0	0	2	21.9	78.1	1	0
	House 61 (Radon Sump)	1020	0	0	0	0	1	21.9	78.1	1	0
	House 62 (Radon Sump)	1020	0	0	0	0	4	21.6	78.4	1	0
	House 63 (Radon Sump)	1020	0	0	0	0	3	22	78	1	0
	ST1 (Storm Drain)	1020	0	0	0	0	15	20.7	79.2	1	0
	ST2 (Storm Drain)	1019	0	0	0	0	2	20.6	79.3	1	0
	House 25 (Water Mains Meter)	1020	0	0	0.2	1.2	7	19.9	79.8	3	0
	House 26 (Water Mains Meter)	1020	0	0	0	0	5	20.6	79.4	2	2.1
	House 27 (Water Mains Meter)	1020	0	0	0	0	5	20.6	79.4	3	7.2
	House 28 (Water Mains Meter)	1020	0	0	0	0	7	20.8	79.2	3	2.8
	House 29 (Water Mains Meter)	1020	0	0	0	0	5	20.9	79.1	2	1.7
	House 30 (Water Mains Meter)	1021	0	0	0	0	5	20.9	79.1	3	5.6
	House 31 (Water Mains Meter)	1021	0	0	0	0	8	20.9	79.1	3	9.5
	House 32 (Water Mains Meter)	1020	0	0	0	0	10	20.9	79.1	3	1.1
	House 33 (Water Mains Meter)	1021	0	0	0	0	8	21.3	78.7	3	0.5
	House 34 (Water Mains Meter)	1021	0	0	0	0	9	21.3	78.7	3	0.4

Table A - 13.39 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, June 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
18/06/2018	House 25 (Radon Sump)	1017	0	0	0.1	0.1	2	21.3	78.6	1	
	House 26 (Radon Sump)	1017	0	0	0	0	2	21.2	78.7	1	
	House 27 (Radon Sump)	1017	0	0	0	0	3	21.2	78.7	1	
	House 28 (Radon Sump)	1017	0	0	0.1	0.1	2	21.2	78.7	1	
	House 29 (Radon Sump)	1017	0	0	0	0	2	21.2	78.7	1	
	House 30 (Radon Sump)	1017	0	0	0.1	0.1	0	21.2	78.7	0	
	House 31 (Radon Sump)	1017	0	0	0	0	2	21.3	78.7	1	
	House 32 (Radon Sump)	1017	0	0	0.1	0.1	1	21.3	78.6	1	
	House 33 (Radon Sump)	1017	0	0	0	0.4	4	21.4	78.6	2	
	House 34 (Radon Sump)	1017	0	0	0	0	0	21.4	78.6	1	
	House 52 (Radon Sump)	1017	0	0	0	0	1	21.5	78.5	1	
	House 53 (Radon Sump)	1017	0	0	0	0	2	21.5	78.5	1	
	House 54 (Radon Sump)	1017	0	0	0.1	0.1	1	21.6	78.3	0	
	House 55 (Radon Sump)	1017	0	0	0.2	0.2	2	21.6	78.2	0	
	House 56 (Radon Sump)	1017	0	0	0	0	2	21.8	78.2	1	
	House 57 (Radon Sump)	1017	0	0	0.1	0.1	1	21.7	78.3	1	
	House 58 (Radon Sump)	1016	0	0	0	0	1	21.8	78.2	1	
	House 59 (Radon Sump)	1017	0	0	0.1	0.1	1	21.6	78.2	1	
	House 60 (Radon Sump)	1016	0	0	0	0	1	21.7	78.2	0	
	House 61 (Radon Sump)	1016	0	0	0.1	0.1	1	21.7	78.2	1	
	House 62 (Radon Sump)	1017	0	0	0	0	1	21.7	78.3	1	
	House 63 (Radon Sump)	1017	0	0	0	0	1	21.7	78.3	0	
	House 25 (Water Mains Meter)	1016	0.1	0.1	0.2	0.2	1	20.9	78.8	0	0
	House 26 (Water Mains Meter)	1016	0.1	0.1	0.1	0.1	1	21	78.8	0	1.5
	House 27 (Water Mains Meter)	1017	0.1	0.1	0.1	0.1	1	21.1	78.7	0	1.1
	House 28 (Water Mains Meter)	1017	0.1	0.1	0.1	0.1	1	21.1	78.7	0	0.3
	House 29 (Water Mains Meter)	1017	0.1	0.1	0.1	0.1	1	21.2	78.6	0	1.1
	House 30 (Water Mains Meter)	1017	0.1	0.1	0.1	0.1	1	21.3	78.6	0	1.6
	House 31 (Water Mains Meter)	1017	0.1	0.1	0.1	0.1	1	21.3	78.5	0	6.2
	House 32 (Water Mains Meter)	1017	0	0.1	0.1	0.1	2	21.3	78.6	0	0.8
	House 33 (Water Mains Meter)	1017	0	0	0.1	0.1	1	21.3	78.6	0	0
	House 34 (Water Mains Meter)	1017	0	0	0.1	0.1	1	21.3	78.6	0	

Table A - 13.40 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, June 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
25/06/2018	House 25 (Radon Sump)	1029	0	0	0	0	30	20.9	79	4	VOC analysis not conducted due to PID malfunction
	House 26 (Radon Sump)	1029	0	0	0	0	4	21.1	78.9	3	
	House 27 (Radon Sump)	1030	0	0	0	0	3	21.3	78.7	2	
	House 28 (Radon Sump)	1030	0	0	0	0	3	21.5	78.5	2	
	House 29 (Radon Sump)	1030	0	0	0	0	3	21.6	78.4	3	
	House 30 (Radon Sump)	1030	0	0	0	0.1	3	21.7	78.2	2	
	House 31 (Radon Sump)	1030	0	0	0	0	3	21.9	78.1	2	
	House 32 (Radon Sump)	1030	0	0	0	0	2	21.9	78.1	2	
	House 33 (Radon Sump)	1030	0	0	0	0	3	21.9	78.2	2	
	House 34 (Radon Sump)	1030	0	0	0	0	3	21.9	78.1	2	
	House 52 (Radon Sump)	1030	0	0	0	0.1	2	21.7	78.2	2	
	House 53 (Radon Sump)	1029	0	0	0	0	3	21.8	78.2	2	
	House 54 (Radon Sump)	1029	0	0	0	0.1	2	21.8	78.2	2	
	House 55 (Radon Sump)	1030	0	0	0.1	0.1	3	21.7	78.2	2	
	House 56 (Radon Sump)	1030	0	0	0	0	2	21.9	78.1	3	
	House 57 (Radon Sump)	1029	0	0	0	0	2	21.8	78.1	2	
	House 58 (Radon Sump)	1030	0	0	0	0	2	21.9	78.1	1	
	House 59 (Radon Sump)	1029	0	0	0	0	2	21.8	78.2	2	
	House 60 (Radon Sump)	1029	0	0	0	0	1	21.9	78.1	2	
	House 61 (Radon Sump)	1029	0	0	0	0	2	21.8	78.2	1	
	House 62 (Radon Sump)	1029	0	0	0	0	2	21.9	78.1	2	
	House 63 (Radon Sump)	1030	0	0	0	0	2	21.9	78.1	2	
	ST1 (Storm Drain)	1029	0	0	0	0	6	20.4	79.6	2	
	ST2 (Storm Drain)	1030	0	0	0	0	3	20.4	79.6	3	
	House 25 (Water Mains Meter)	1030	0	0	0	0.1	5	20.3	79.6	4	
	House 26 (Water Mains Meter)	1030	0	0	0	0	2	20.4	79.6	3	
	House 27 (Water Mains Meter)	1030	0	0	0	0	3	20.3	79.7	4	
	House 28 (Water Mains Meter)	1030	0	0	0	0	3	20.5	79.5	4	
	House 29 (Water Mains Meter)	1030	0	0	0	0	4	20.7	79.3	3	
	House 30 (Water Mains Meter)	1029	0	0	0	0	4	20.7	79.3	4	
	House 31 (Water Mains Meter)	1030	0	0	0	0	6	20.7	79.3	4	
	House 32 (Water Mains Meter)	1030	0	0	0	0	9	20.8	79.2	4	
	House 33 (Water Mains Meter)	1030	0	0	0	0	7	20.9	79.1	3	
	House 34 (Water Mains Meter)	1030	0	0	0	0	9	20.9	79.1	4	

Table A - 13.41 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
02/07/2018	House 25 (Radon Sump)	1022	0	0	0	0	14	21.6	78.4	3	VOC analysis not conducted due to PID malfunction
	House 26 (Radon Sump)	1023	0	0	0	0	12	21.7	78.3	2	
	House 27 (Radon Sump)	1022	0	0	0	0	11	21.8	78.2	2	
	House 28 (Radon Sump)	1023	0	0	0	0	11	21.9	78.1	3	
	House 29 (Radon Sump)	1023	0	0	0	0	9	22.1	77.9	2	
	House 30 (Radon Sump)	1022	0	0	0	0	8	22.1	77.9	2	
	House 31 (Radon Sump)	1023	0	0	0	0	8	22.1	77.9	2	
	House 32 (Radon Sump)	1022	0	0	0	0	7	22.2	77.8	2	
	House 33 (Radon Sump)	1022	0	0	0	0	6	22.2	77.8	3	
	House 34 (Radon Sump)	1022	0	0	0	0	6	22.2	77.8	2	
	House 52 (Radon Sump)	1022	0	0	0	0	6	22.1	77.9	2	
	House 53 (Radon Sump)	1022	0	0	0	0	6	22	77.9	2	
	House 54 (Radon Sump)	1022	0	0	0	0	5	22.1	77.9	2	
	House 55 (Radon Sump)	1022	0	0	0	0	4	22.1	77.9	2	
	House 56 (Radon Sump)	1022	0	0	0	0	5	22.1	77.9	2	
	House 57 (Radon Sump)	1022	0	0	0	0	3	22.1	77.9	2	
	House 58 (Radon Sump)	1022	0	0	0	0	4	22.1	77.9	2	
	House 59 (Radon Sump)	1022	0	0	0	0	4	22.1	77.9	2	
	House 60 (Radon Sump)	1022	0	0	0	0	3	22.1	77.9	2	
	House 61 (Radon Sump)	1022	0	0	0	0	3	22	78	2	
	House 62 (Radon Sump)	1022	0	0	0	0	3	22	77.9	1	
	House 63 (Radon Sump)	1022	0	0	0	0	3	22.1	78	1	
	ST1 (Storm Drain)	1022	0	0	0	0	15	21.5	78.5	3	
	ST2 (Storm Drain)	1022	0	0	0	0	15	21.6	78.4	3	
	House 25 (Water Mains Meter)	1025	0	0	0	0	1	21.1	78.9	3	
	House 26 (Water Mains Meter)	1025	0	0	0.2	0.8	1	19.9	79.9	4	
	House 27 (Water Mains Meter)	1024	0	0	0	0.3	3	20.3	79.7	4	
	House 28 (Water Mains Meter)	1024	0	0	0	0	7	20.5	79.5	4	
	House 29 (Water Mains Meter)	1025	0	0	0	0	11	21.2	78.8	4	
	House 30 (Water Mains Meter)	1025	0	0	0	0	12	21.1	78.9	4	
	House 31 (Water Mains Meter)	1025	0	0	0	0	15	21.3	78.7	3	
	House 32 (Water Mains Meter)	1025	0	0	0	0	18	21.3	78.7	4	
	House 33 (Water Mains Meter)	1025	0	0	0	0	18	21.2	78.1	4	
	House 34 (Water Mains Meter)	1025	0	0	0	0	20	21.5	78.5	3	

Table A - 13.42 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
09/07/2018	House 25 (Radon Sump)	1031	0	0	0	0	10	21.1	78.8	1	VOC analysis not conducted due to PID malfunction
	House 26 (Radon Sump)	1031	0	0	0	0	10	21.2	78.8	1	
	House 27 (Radon Sump)	1031	0	0	0	0	9	21.2	78.7	2	
	House 28 (Radon Sump)	1031	0	0	0	0	9	21.3	78.7	1	
	House 29 (Radon Sump)	1031	0	0	0	0	9	21.4	78.6	1	
	House 30 (Radon Sump)	1031	0	0	0	0	8	21.5	78.5	1	
	House 31 (Radon Sump)	1031	0	0	0	0	8	21.5	78.4	2	
	House 32 (Radon Sump)	1031	0	0	0	0	8	21.6	78.3	2	
	House 33 (Radon Sump)	1031	0	0	0	0	7	21.7	78.3	1	
	House 34 (Radon Sump)	1031	0	0	0	0	7	21.7	78.3	2	
	House 52 (Radon Sump)	1031	0	0	0	0	7	21.7	78.2	1	
	House 53 (Radon Sump)	1031	0	0	0	0	6	21.7	78.2	1	
	House 54 (Radon Sump)	1031	0	0	0	0	7	21.7	78.2	1	
	House 55 (Radon Sump)	1031	0	0	0	0	6	21.8	78.2	1	
	House 56 (Radon Sump)	1031	0	0	0	0	6	21.8	78.2	1	
	House 57 (Radon Sump)	1031	0	0	0	0	6	21.8	78.2	1	
	House 58 (Radon Sump)	1031	0	0	0	0	6	21.8	78.2	1	
	House 59 (Radon Sump)	1031	0	0	0	0	6	21.8	78.1	1	
	House 60 (Radon Sump)	1031	0	0	0	0	5	21.9	78.1	1	
	House 61 (Radon Sump)	1031	0	0	0	0	5	21.9	78	2	
	House 62 (Radon Sump)	1031	0	0	0	0	5	22	78	2	
	House 63 (Radon Sump)	1031	0	0	0	0	5	22	78	1	
	ST1 (Storm Drain)	1031	0.1	0	0	0	11	21.1	78.8	2	
	ST2 (Storm Drain)	1031	0	0	0	0	15	21.1	78.2	1	
	House 25 (Water Mains Meter)	1031	0	0	1	1.5	2	18.4	80.6	2	
	House 26 (Water Mains Meter)	1031	0	0	1.1	0	3	17.5	81.4	3	
	House 27 (Water Mains Meter)	1031	0	0	0	1.1	4	19.8	80.2	2	
	House 28 (Water Mains Meter)	1031	0	0	0	0	4	20	80	3	
	House 29 (Water Mains Meter)	1031	0	0	0	0	6	20.7	79.3	3	
	House 30 (Water Mains Meter)	1031	0	0	0	0	9	20.2	79.8	2	
	House 31 (Water Mains Meter)	1031	0	0	0	0	13	20.7	79.3	3	
	House 32 (Water Mains Meter)	1031	0	0	0	0	16	20.7	79.3	3	
	House 33 (Water Mains Meter)	1031	0	0	0	0	15	20.3	79.6	4	
	House 34 (Water Mains Meter)	1031	0	0	0	0	17	20.8	79.2	3	

Table A - 13.43 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
16/07/2018	House 25 (Radon Sump)	1015	0	0	0	0	1	21.5	78.5	1	VOC analysis not conducted due to PID malfunction	
	House 26 (Radon Sump)	1015	0	0	0	0	0	21.5	78.5	2		
	House 27 (Radon Sump)	1015	0	0	0	0	1	21.6	78.4	1		
	House 28 (Radon Sump)	1015	0	0	0	0	0	21.7	78.3	1		
	House 29 (Radon Sump)	1015	0	0	0	0	1	21.7	78.3	1		
	House 30 (Radon Sump)	1015	0	0	0	0	0	21.8	78.2	1		
	House 31 (Radon Sump)	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	House 32 (Radon Sump)	1015	0	0	0	0	1	21.8	78.1	0		
	House 33 (Radon Sump)	1015	0	0	0	0	1	21.9	78.1	1		
	House 34 (Radon Sump)	1015	0	0	0	0	0	21.9	78.1	0		
	House 52 (Radon Sump)	1015	0	0	0	0	0	21.8	78.2	1		
	House 53 (Radon Sump)	1015	0	0	0	0	1	21.8	78.2	1		
	House 54 (Radon Sump)	1015	0	0	0	0	0	21.8	78.2	1		
	House 55 (Radon Sump)	1015	0	0	0	0	0	21.8	78.2	1		
	House 56 (Radon Sump)	1015	0	0	0	0	1	21.8	78.2	1		
	House 57 (Radon Sump)	1015	0	0	0	0	0	21.8	78.1	1		
	House 58 (Radon Sump)	1015	0	0	0	0	0	21.8	78.1	2		
	House 59 (Radon Sump)	1015	0	0	0	0	0	21.9	78.1	1		
	House 60 (Radon Sump)	1015	0	0	0	0	1	21.9	78.1	1		
	House 61 (Radon Sump)	1015	0	0	0	0	1	21.9	78.1	2		
	House 62 (Radon Sump)	1015	0	0	0	0	0	21.9	78.1	1		
	House 63 (Radon Sump)	1015	0	0	0	0	0	21.8	78.2	1		
	ST1 (Storm Drain)	1015	0	0	0	0	1	21.5	78.5	1		
	ST2 (Storm Drain)	1015	0	0	0	0	1	21.5	78.5	1		
	House 25 (Water Mains Meter)	1015	0	0	0	0	0	21.1	78.9	1		
	House 26 (Water Mains Meter)	1015	0	0	0	0	1	21.1	78.9	1		
	House 27 (Water Mains Meter)	1015	0	0	0	0	1	21.1	78.9	2		
	House 28 (Water Mains Meter)	1015	0	0	0	0	1	21.2	78.8	1		
	House 29 (Water Mains Meter)	1015	0	0	0	0	1	21.2	78.8	1		
	House 30 (Water Mains Meter)	1015	0	0	0	0	1	21.2	78.7	1		
	House 31 (Water Mains Meter)	1015	0	0	0	0	0	21.3	78.7	1		
	House 32 (Water Mains Meter)	1015	0	0	0	0	1	21.4	78.6	1		
	House 33 (Water Mains Meter)	1015	0	0	0	0	0	21.5	78.5	1		
	House 34 (Water Mains Meter)	1015	0	0	0	0	0	21.3	78.5	1		

Table A - 13.44 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
23/07/2018	House 25 (Radon Sump)	1012	0	0	0	0	6	20.8	79.2	1	VOC analysis not conducted due to PID malfunction	
	House 26 (Radon Sump)	1012	0	0	0	0	5	20.8	79.1	2		
	House 27 (Radon Sump)	1012	0	0	0	0	5	20.8	79.1	2		
	House 28 (Radon Sump)	1012	0	0	0.2	0.2	5	20.6	79.2	2		
	House 29 (Radon Sump)	1012	0	0	0	0.2	5	21	79	2		
	House 30 (Radon Sump)	1012	0	0	0.1	0.1	6	20.9	79	2		
	House 31 (Radon Sump)	NA	NA	NA	NA	NA	NA	NA	NA	NA		NA
	House 32 (Radon Sump)	1012	0	0	0	0.1	5	21.1	78.9	2		
	House 33 (Radon Sump)	1012	0	0	0	0	5	21.2	78.8	2		
	House 34 (Radon Sump)	1012	0	0	0	0	6	21.2	78.8	2		
	House 52 (Radon Sump)	1012	0	0	0	0.2	4	21.1	78.6	2		
	House 53 (Radon Sump)	1012	0	0	0	0.2	4	21.3	78.7	2		
	House 54 (Radon Sump)	1012	0	0	0.1	0.1	5	21.3	78.6	2		
	House 55 (Radon Sump)	1012	0	0	0.1	0.1	5	21.2	78.6	2		
	House 56 (Radon Sump)	1012	0	0	0	0.1	4	21.5	78.5	2		
	House 57 (Radon Sump)	1012	0	0	0	0	4	21.2	78.7	2		
	House 58 (Radon Sump)	1012	0	0.1	0	0	4	21.5	78.5	1		
	House 59 (Radon Sump)	1012	0	0	0.1	0.1	4	21.2	78.7	1		
	House 60 (Radon Sump)	1012	0	0	0	0	4	21.2	78.8	1		
	House 61 (Radon Sump)	1012	0	0	0	0.1	5	21.1	78.5	1		
	House 62 (Radon Sump)	1012	0	0	0	0	4	21.1	78.6	1		
	House 63 (Radon Sump)	1012	0	0	0	0.1	5	21.3	78.8	2		
	ST1 (Storm Drain)	1012	0.1	0.1	0	0	6	20.7	79.3	2		
	ST2 (Storm Drain)	1012	0.1	0.1	0	0	7	20.6	79.3	2		
	House 25 (Water Mains Meter)	1015	0	0	0.1	0.1	1	20.1	79.9	2		
	House 26 (Water Mains Meter)	1015	0	0	0	0.1	1	20.2	79.8	1		
	House 27 (Water Mains Meter)	1015	0	0	0	0	2	19.9	80.1	2		
	House 28 (Water Mains Meter)	1015	0	0	0	0	2	20	80	2		
	House 29 (Water Mains Meter)	1015	0	0	0	0	3	20.3	79.7	2		
	House 30 (Water Mains Meter)	1015	0	0	0	0	4	20	80	2		
	House 31 (Water Mains Meter)	1015	0	0	0	0	7	20.4	79.6	3		
	House 32 (Water Mains Meter)	1015	0	0	0	0	10	20.4	79.6	3		
	House 33 (Water Mains Meter)	1015	0	0	0	0	10	20.5	79.5	3		
	House 34 (Water Mains Meter)	1015	0	0	0	0	11	20.6	79.4	3		

Table A - 13.45 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, July 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
30/07/2018	House 25 (Radon Sump)	1007	0	0	0.1	0.1	2	21.5	78.4	0	VOC analysis not conducted due to rainfall	
	House 26 (Radon Sump)	1007	0	0	0.1	0.1	2	21.5	78.5	0		
	House 27 (Radon Sump)	1007	0	0	0.1	0.1	2	21.4	78.5	0		
	House 28 (Radon Sump)	1007	0	0	0.2	0.2	3	21.2	78.6	0		
	House 29 (Radon Sump)	1007	0	0	0.1	0.2	3	21.3	78.5	0		
	House 30 (Radon Sump)	1007	0	0.1	0.1	0.1	3	21.2	78.6	0		
	House 31 (Radon Sump)	1007	0.1	0.1	0	0.1	3	21.4	78.5	0		
	House 32 (Radon Sump)	1007	0.1	0.1	0.1	0.1	2	21.4	78.5	0		
	House 33 (Radon Sump)	1005	0.1	0.1	0	0.1	3	21.4	78.5	0		
	House 34 (Radon Sump)	1005	0.1	0.1	0	0.1	3	21.4	78.5	0		
	House 52 (Radon Sump)	1005	0.1	0.1	0	0.2	3	21.4	78.4	0		
	House 53 (Radon Sump)	1005	0.1	0.1	0	0.2	3	21.5	78.4	0		
	House 54 (Radon Sump)	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	House 55 (Radon Sump)	1005	0.1	0.1	0.2	0.2	3	21.2	78.5	0		
	House 56 (Radon Sump)	1005	0.1	0.1	0	0.1	2	21.4	78.5	0		
	House 57 (Radon Sump)	1005	0.1	0.1	0.1	0.1	2	21.3	78.6	0		
	House 58 (Radon Sump)	1005	0.1	0.1	0.1	0.3	2	21.4	78.4	0		
	House 59 (Radon Sump)	1005	0.1	0.1	0.3	0.3	2	21.1	78.5	0		
	House 60 (Radon Sump)	1005	0.1	0.1	0.1	0.1	2	21.5	78.4	0		
	House 61 (Radon Sump)	1005	0.1	0.1	0.3	0.3	2	21	78.6	0		
	House 62 (Radon Sump)	1005	0.1	0.1	0	0.3	2	21.6	78.4	0		
	House 63 (Radon Sump)	1005	0.1	0.1	0.2	0.2	2	21.1	78.6	0		
	ST1 (Storm Drain)	1007	0	0	0	0	2	21.5	78.4	0		
	ST2 (Storm Drain)	1007	0	0	0.1	0.1	2	21.5	78.4	0		
	House 25 (Water Mains Meter)	1007	0	0	0.1	0.2	0	21.3	78.6	0		
	House 26 (Water Mains Meter)	1007	0	0	0.1	0.1	1	21.1	78.7	0		
	House 27 (Water Mains Meter)	1007	0	0	0	0.1	1	21.4	78.6	0		
	House 28 (Water Mains Meter)	1007	0	0	0	0	1	21.4	78.5	0		
	House 29 (Water Mains Meter)	1007	0	0	0	0	1	21.4	78.6	0		
	House 30 (Water Mains Meter)	1007	0	0	0	0	2	21.4	78.6	0		
	House 31 (Water Mains Meter)	1007	0	0	0	0	3	21.4	78.5	0		
	House 32 (Water Mains Meter)	1007	0	0	0	0	3	21.4	78.6	0		
	House 33 (Water Mains Meter)	1007	0	0.1	0	0	2	21.4	78.5	0		
	House 34 (Water Mains Meter)	1007	0	0	0	0	2	21.5	78.5	0		

Table A - 13.46 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63 and Storm Drains ST1 and ST2 at Barnageeragh Cove, Skerries, County Dublin, August 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
07/08/2018	House 25 (Radon Sump)	1010	0	0	0	0	1	21.2	78.8	1	0
	House 26 (Radon Sump)	1010	0	0	0	0	1	21.2	78.7	1	0
	House 27 (Radon Sump)	1010	0	0	0	0	0	21.3	78.7	0	0
	House 28 (Radon Sump)	1010	0	0	0	0	0	21.3	78.6	0	0
	House 29 (Radon Sump)	1010	0	0	0.1	0.1	1	21.2	78.7	0	0
	House 30 (Radon Sump)	1010	0	0	0.1	0.1	2	21.1	78.8	1	0
	House 31 (Radon Sump)	1010	0	0	0	0.2	1	21.3	78.6	0	0
	House 32 (Radon Sump)	1010	0	0	0.1	0.1	0	21.3	78.6	0	0
	House 33 (Radon Sump)	1010	0	0	0	0.1	1	21.3	78.6	1	0
	House 34 (Radon Sump)	1010	0	0	0	0	1	21.3	78.6	0	0
	House 52 (Radon Sump)	1007	0.1	0.1	0	0.1	0	20.8	79.1	0	0
	House 53 (Radon Sump)	1007	0.1	0.1	0	0	1	20.7	79.2	0	0
	House 54 (Radon Sump)	1007	0.1	0.1	0.1	0.1	1	20.6	79.2	0	0
	House 55 (Radon Sump)	1007	0.1	0.1	0.2	0.2	1	20.4	79.3	0	0
	House 56 (Radon Sump)	1007	0.1	0.1	0.1	0.2	0	20.5	79.4	0	0
	House 57 (Radon Sump)	1007	0.1	0.1	0.1	0.1	1	20.5	79.3	0	0
	House 58 (Radon Sump)	1007	0.1	0.1	0	0.1	0	20.5	79.3	0	0
	House 59 (Radon Sump)	1007	0.1	0.1	0	0.1	1	20.7	79.2	0	0
	House 60 (Radon Sump)	1007	0.1	0.1	0.1	0.1	1	20.7	79.2	0	0
	House 61 (Radon Sump)	1007	0.1	0.1	0.2	0.2	1	20.3	79.4	0	0
	House 62 (Radon Sump)	1007	0.1	0.1	0	0.3	1	20.8	79.1	1	0
	House 63 (Radon Sump)	1007	0.1	0.1	0.1	0.1	1	20.8	79	0	0
	ST1 (Storm Drain)	1012	0	0	0	0	1	21.2	78.8	1	0.3
	ST2 (Storm Drain)	1012	0	0	0	0	0	21.3	78.6	1	0
	House 25 (Water Mains Meter)	1010	0	0	0	0.1	0	20.9	79	0	0
	House 26 (Water Mains Meter)	1010	0	0	0	0	1	21.2	78.7	0	0.3
	House 27 (Water Mains Meter)	1010	0	0	0	0	0	21.3	78.7	0	10.4
	House 28 (Water Mains Meter)	1010	0	0	0	0	0	21.3	78.6	0	0
	House 29 (Water Mains Meter)	1010	0	0	0	0	1	21.3	78.7	0	2.8
	House 30 (Water Mains Meter)	1010	0	0	0	0	0	21.3	78.7	0	2.4
	House 31 (Water Mains Meter)	1010	0	0	0	0	0	21.3	78.7	1	11.4
	House 32 (Water Mains Meter)	1010	0	0	0	0	1	21.3	78.7	0	0
	House 33 (Water Mains Meter)	1010	0	0	0	0	1	21.3	78.7	0	1.1
	House 34 (Water Mains Meter)	1010	0	0	0	0	1	21.3	78.6	0	0

Table A - 13.47 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63, Storm Drains ST1 and ST2 and Surface Water Monitoring Points SW2 & SW3 at Barnageeragh Cove, Skerries, County Dublin, August 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
13/08/2018	ST1 (Storm Drain)	1010	0	0	0	0	2	21.3	78.7	1	0
	ST2 (Storm Drain)	1010	0	0	0	0	3	21.2	78.7	1	0
	House 25 (Water Mains Meter)	1011	0	0	0.1	0.2	2	20.9	79	0	0
	House 26 (Water Mains Meter)	1011	0	0	0.1	0.1	2	20.9	79	0	1.1
	House 27 (Water Mains Meter)	1011	0	0	0	0.1	1	21.1	78.9	1	0.9
	House 28 (Water Mains Meter)	1011	0	0	0	0.1	2	21.1	78.9	0	0.3
	House 29 (Water Mains Meter)	1010	0	0	0	0.1	1	21.1	78.9	0	0
	House 30 (Water Mains Meter)	1011	0	0	0	0.1	1	21.1	78.9	0	2.7
	House 31 (Water Mains Meter)	1009	0	0	0	0.1	1	21	79	1	1.6
	House 32 (Water Mains Meter)	1011	0	0	0	0.1	1	21	79	0	0
	House 33 (Water Mains Meter)	1011	0	0	0	0.1	1	20.9	79	0	0
	House 34 (Water Mains Meter)	1011	0	0	0.1	0.2	2	20.9	79	0	0
	SW2 (Surface Water Monitoring)	1011	0	0	0.1	0.1	2	21.1	78.8	1	0
	SW3 (Surface Water Monitoring)	1010	0	0	0.1	0.1	2	21	78.9	1	0
20/08/2018	ST1 (Storm Drain)	1020	0	0	0.1	0.1	1	21.2	78.7	0	3.9
	ST2 (Storm Drain)	1020	0	0	0.1	0.2	2	21.2	78.7	0	6.4
	House 25 (Water Mains Meter)	1020	0	0	0.1	0.1	1	21.1	78.8	0	2.5
	House 26 (Water Mains Meter)	1020	0	0	0.1	0.1	1	21	78.9	0	3.3
	House 27 (Water Mains Meter)	1020	0	0	0	0	1	21.1	78.8	0	5.6
	House 28 (Water Mains Meter)	1020	0	0	0	0.1	0	21.1	78.8	0	5.8
	House 29 (Water Mains Meter)	1020	0	0	0	0.1	0	21.2	78.8	0	0
	House 30 (Water Mains Meter)	1020	0	0	0	0.1	0	21.2	78.8	0	0
	House 31 (Water Mains Meter)	1020	0	0	0	0.1	0	21.2	78.8	0	0.7
	House 32 (Water Mains Meter)	1020	0	0	0	0.1	1	21.1	78.9	0	0
	House 33 (Water Mains Meter)	1020	0	0	0.1	0.1	0	21.1	78.8	0	0
	House 34 (Water Mains Meter)	1020	0	0	0	0.1	0	21.1	78.8	0	0
	SW2 (Surface Water Monitoring)	1020	0	0	0.1	0.1	2	21.1	78.9	0	7.3
	SW3 (Surface Water Monitoring)	1020	0	0	0.1	0.1	2	21.1	78.8	0	6.3
21/08/2018	House 25 (Radon Sump)	1017	0	0	0.1	0.1	0	20.7	79.2	0	0
	House 26 (Radon Sump)	1017	0	0	0.1	0.1	0	20.6	79.3	0	0
	House 27 (Radon Sump)	1017	0	0	0.1	0.1	0	20.5	79.4	0	0
	House 28 (Radon Sump)	1017	0	0	0.2	0.2	0	20.3	79.5	0	0
	House 29 (Radon Sump)	1017	0	0	0.1	0.1	0	20.4	79.6	0	0
	House 30 (Radon Sump)	1017	0	0	0.2	0.2	0	20.4	79.5	0	0
	House 31 (Radon Sump)	1017	0	0	0.1	0.2	0	20.4	79.5	0	0
	House 32 (Radon Sump)	1017	0	0	0.1	0.1	0	20.5	79.4	0	0
	House 33 (Radon Sump)	1017	0	0	0.1	0.1	0	20.6	79.4	0	0
	House 34 (Radon Sump)	1017	0	0	0.1	0.1	1	20.6	79.3	0	0
	House 52 (Radon Sump)	1017	0	0	0.1	0.1	0	20.3	79.5	0	0
	House 53 (Radon Sump)	1017	0	0	0.1	0.1	1	20.6	79.3	0	0
	House 54 (Radon Sump)										
	House 55 (Radon Sump)										
	House 56 (Radon Sump)										
	House 57 (Radon Sump)										
	House 58 (Radon Sump)										
	House 59 (Radon Sump)										
	House 60 (Radon Sump)										
House 61 (Radon Sump)											
House 62 (Radon Sump)											
House 63 (Radon Sump)	1017	0	0	0.2	0.2	0	20.4	79.4	0	0	

Table A - 13.48 Results from Radon Sumps and Water Mains Meters from Houses 25 to 34 & 52 to 63, Storm Drains ST1 and ST2 and Surface Water Monitoring Points SW2 & SW3 at Barnageeragh Cove, Skerries, County Dublin, August 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)		CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
27/08/2018	House 25 (Radon Sump)										
	House 26 (Radon Sump)	1011	0	0	0.1	0.1	1	21.2	78.8	0	0
	House 27 (Radon Sump)	1011	0	0	0.1	0.1	1	21.1	78.7	0	0
	House 28 (Radon Sump)										
	House 29 (Radon Sump)										
	House 30 (Radon Sump)										
	House 31 (Radon Sump)										
	House 32 (Radon Sump)										
	House 33 (Radon Sump)	1011	0	0	0.1	0.1	0	21.2	78.9	0	0
	House 34 (Radon Sump)										
	House 52 (Radon Sump)	1011	0	0	0.1	0.1	0	21.1	79	0	0
	House 53 (Radon Sump)	1011	0	0	0.1	0.1	0	21.3	79.1	0	0
	House 54 (Radon Sump)										
	House 55 (Radon Sump)										
	House 56 (Radon Sump)										
	House 57 (Radon Sump)										
	House 58 (Radon Sump)										
	House 59 (Radon Sump)										
	House 60 (Radon Sump)										
	House 61 (Radon Sump)										
	House 62 (Radon Sump)										
	House 63 (Radon Sump)	1011	0	0	0.1	0.1	0	21.1	78.9	0	0
	ST1 (Storm Drain)	1009	0	0	0.1	0.1	1	21.1	78.9	0	0
	ST2 (Storm Drain)	1011	0	0	0.1	0.1	1	21.1	78.9	0	0
	House 25 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.5	78.5	0	0
	House 26 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.4	78.5	0	0
	House 27 (Water Mains Meter)	1011	0	0	0	0	0	21.4	78.5	0	0
	House 28 (Water Mains Meter)	1011	0	0	0	0.1	0	21.4	78.5	0	0
	House 29 (Water Mains Meter)	1011	0	0	0	0.1	1	21.3	78.6	0	0
	House 30 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.4	78.6	0	0
	House 31 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.4	78.6	0	0
	House 32 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.3	78.7	0	0
House 33 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.3	78.6	0	0	
House 34 (Water Mains Meter)	1011	0	0	0.1	0.1	0	21.3	78.7	0	0	
SW2 (Surface Water Monitoring)	1009	0	0	0.1	0.1	0	21.1	78.9	0	0	
SW3 (Surface Water Monitoring)	1009	0	0	0.1	0.1	1	21.1	78.9	0	0	

Table A - 13.49 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
03/09/2018	House 25 (Radon Sump)													
	House 26 (Radon Sump)													
	House 27 (Radon Sump)													
	House 28 (Radon Sump)													
	House 29 (Radon Sump)													
	House 30 (Radon Sump)													
	House 31 (Radon Sump)													
	House 32 (Radon Sump)													
	House 33 (Radon Sump)													
	House 34 (Radon Sump)													
	House 52 (Radon Sump)	1024			0	0	0	0.1	0.1	1	21.4	78.5	0	0
	House 53 (Radon Sump)	1024			0	0	0	0.1	0.1	1	21.4	78.5	0	0
	House 54 (Radon Sump)													
	House 55 (Radon Sump)													
	House 56 (Radon Sump)													
	House 57 (Radon Sump)													
	House 58 (Radon Sump)													
	House 59 (Radon Sump)													
	House 60 (Radon Sump)													
	House 61 (Radon Sump)	1024			0	0	0	0.1	0.1	2	21.4	78.6	0	0
	House 62 (Radon Sump)	1024			0	0	0	0.1	0.1	1	21.3	78.6	0	0
	House 63 (Radon Sump)													
	Storm Drain (ST1)	1024			0	0	0	0.1	0.1	2	21.3	78.5	0	0
	Storm Drain (ST2)	1024			0	0	0	0.1	0.1	1	21.3	78.7	0	0
	Surface Water Monitoring Drain (SW2)	1024			0	0	0	0.1	0.1	2	21.2	78.7	0	0
	Surface Water Monitoring Drain (SW3)	1024			0	0	0	0.1	0.1	2	21.1	78.8	0	0
	House 25 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.3	78.6	0	0
	House 26 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.2	78.7	0	0
	House 27 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.4	78.5	0	0
	House 28 (Water Mains Meter)	1026			0	0	0	0	0.1	1	21.5	78.5	0	0
House 29 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.4	78.6	0	0	
House 30 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.4	78.5	0	0	
House 31 (Water Mains Meter)	1026			0	0	0	0	0.1	0	21.4	78.5	0	0	
House 32 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.4	78.6	0	0	
House 33 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.3	78.6	0	0	
House 34 (Water Mains Meter)	1026			0	0	0	0.1	0.1	0	21.3	78.6	0	0	

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Table A - 13.50 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
10/09/2018	House 25 (Radon Sump)	1017		0	0	0	0.1	0.1	2	21.6	78.3	1	0
	House 26 (Radon Sump)	1017		0	0	0	0.1	0.1	2	21.6	78.3	1	0
	House 27 (Radon Sump)	1017		0	0	0	0.1	0.1	2	21.5	78.4	1	0
	House 28 (Radon Sump)	1017		0	0	0	0.2	0.2	2	21.6	78.2	1	0
	House 29 (Radon Sump)	1017		0	0	0	0.2	0.2	3	21.5	78.3	1	0
	House 30 (Radon Sump)	1017		0	0	0	0.2	0.2	2	21.5	78.3	1	0
	House 31 (Radon Sump)	1017		0	0	0	0.1	0.2	2	21.7	78.2	1	0
	House 32 (Radon Sump)	1017		0	0	0	0.1	0.1	2	21.8	78.1	1	0
	House 33 (Radon Sump)	1017		0	0	0	0.1	0.1	2	21.8	78.1	1	0
	House 34 (Radon Sump)	1017		0	0	0	0.1	0.1	2	21.8	78.1	1	0
	House 52 (Radon Sump)	1016		0	0	0	0.1	0.1	2	22	78	1	0
	House 53 (Radon Sump)	1016		0	0	0	0.1	0.1	2	21.9	78.1	1	0
	House 54 (Radon Sump)	1016		0	0	0	0.1	0.1	2	21.9	78.1	1	0
	House 55 (Radon Sump)	1016		0	0	0	0.2	0.2	2	21.6	78.2	1	0
	House 56 (Radon Sump)	1016		0	0	0	0.1	0.2	2	21.9	78	1	0
	House 57 (Radon Sump)	1016		0	0	0	0.2	0.2	2	21.7	78.1	1	0
	House 58 (Radon Sump)	1016		0	0	0	0.1	0.1	2	21.9	78	1	0
	House 59 (Radon Sump)	1016		0	0	0	0.4	0.4	2	21.7	77.9	1	0
	House 60 (Radon Sump)	1016		0	0	0	0.1	0.2	2	21.8	78.1	1	0
	House 61 (Radon Sump)	1016		0	0	0	0.2	0.2	2	21.8	78.2	1	0
	House 62 (Radon Sump)	1016		0	0	0	0.1	0.1	2	21.9	77.9	1	0
	House 63 (Radon Sump)	1016		0	0	0	0.1	0.1	2	21.6	78.1	1	0
	Storm Drain (ST1)	1017		0	0	0	0.1	0.1	1	21.8	78.2	1	0
	Storm Drain (ST2)	1017		0	0	0	0.1	0.1	2	21.8	78.3	1	0
	Surface Water Monitoring Drain (SW2)	1016		0	0	0	0.1	0.4	3	21.9	78	1	0
	Surface Water Monitoring Drain (SW3)	1016		0	0	0	0.1	0.1	2	21.8	78.1	1	0
	House 25 (Water Mains Meter)	1017		0	0	0	0.2	0.2	1	21.4	78.4	1	0
	House 26 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.5	78.4	1	1.1
	House 27 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.4	78.5	0	3.7
	House 28 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.5	78.4	1	1.2
	House 29 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.5	78.4	0	0.9
	House 30 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.5	78.4	1	3.5
	House 31 (Water Mains Meter)	1017		0	0	0	0.1	0.1	2	21.6	78.4	1	3.3
House 32 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.5	78.5	1	0	
House 33 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.6	78.4	1	0	
House 34 (Water Mains Meter)	1017		0	0	0	0.1	0.1	1	21.6	78.4	1	0	

Table A - 13.51 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
17/09/2018	House 25 (Radon Sump)	1004		0	0	0	0.1	0.1	2	21.3	78.6	1		
	House 26 (Radon Sump)	1004		0	0	0	0.1	0.1	2	21.3	78.6	1		
	House 27 (Radon Sump)	1003		0	0	0	0.1	0.1	2	21.3	78.6	1		
	House 28 (Radon Sump)	1004		0	0	0	0.2	0.2	2	21.2	78.6	1		
	House 29 (Radon Sump)	1003		0	0	0	0.1	0.1	2	21.3	78.6	1		
	House 30 (Radon Sump)	1004		0	0	0	0.2	0.2	3	21.2	78.6	1		
	House 31 (Radon Sump)	1004		0	0	0	0.1	0.1	3	21.3	78.6	0		
	House 32 (Radon Sump)	1004		0	0	0	0.1	0.1	3	21.3	78.6	1		
	House 33 (Radon Sump)	1003		0	0	0	0.1	0.1	2	21.3	78.6	2		
	House 34 (Radon Sump)	1004		0	0	0	0.1	0.1	2	21.3	78.6	1		
	House 52 (Radon Sump)	1003		0	0	0	0.3	0.3	3	21	78.7	1		
	House 53 (Radon Sump)	1003		0	0	0	0.1	0.1	2	21.2	78.7	1		
	House 54 (Radon Sump)													
	House 55 (Radon Sump)	1003		0	0	0	0.1	0.1	3	21	78.8	1		
	House 56 (Radon Sump)	1003		0	0	0	0.1	0.1	3	21.3	78.6	1		
	House 57 (Radon Sump)	1003		0	0	0	0.2	0.2	2	21.2	78.6	1		
	House 58 (Radon Sump)	1003		0	0	0	0.1	0.1	2	21.3	78.6	1		
	House 59 (Radon Sump)	1003		0	0	0	0.3	0.3	3	21.2	78.5	1		
	House 60 (Radon Sump)	1003		0	0	0	0.1	0.1	2	21.3	78.6	2		
	House 61 (Radon Sump)	1003		0	0	0	0.6	0.6	2	20.8	78.5	2		
	House 62 (Radon Sump)	1003		0	0	0	0.1	0.1	3	21.3	78.6	2		
	House 63 (Radon Sump)	1003		0	0	0	0.2	0.2	3	21.1	78.7	1		
	Storm Drain (ST1)	1004		0	0	0	0.1	0.1	2	21.4	78.5	1		
	Storm Drain (ST2)	1004		0	0	0	0.1	0.1	2	21.4	78.5	1		
	Surface Water Monitoring Drain (SW2)	1003		0	0	0	0.1	0.2	3	21.3	78.6	1		
	Surface Water Monitoring Drain (SW3)	1004		0	0	0	0.1	0.1	3	21.3	78.6	1		
	House 25 (Water Mains Meter)	1005		0	0	0	0.1	0.3	2	21.6	78.3	1		
	House 26 (Water Mains Meter)	1003		0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 27 (Water Mains Meter)	1003		0	0	0	0.1	0.1	2	21.6	78.3	0		
	House 28 (Water Mains Meter)	1005		0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 29 (Water Mains Meter)	1005		0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 30 (Water Mains Meter)	1005		0	0	0	0.1	0.1	1	21.6	78.3	1		
	House 31 (Water Mains Meter)	1005		0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 32 (Water Mains Meter)	1005		0	0	0	0.1	0.1	2	21.6	78.4	0		
	House 33 (Water Mains Meter)	1004		0	0	0	0.1	0.1	2	21.6	78.3	0		
	House 34 (Water Mains Meter)	1002		0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 52 (Water Mains Meter)	1002		0	0	0	0.1	0.1	10	21.1	78.9	2		
	House 53 (Water Mains Meter)	1002		0	0	0	0	0.1	7	21.1	78.8	2		
	House 54 (Water Mains Meter)	1002		0	0	0	0.1	0.1	3	21.3	78.6	2		
	House 55 (Water Mains Meter)	1003		0	0	0	0	0.1	7	21.2	78.8	2		
	House 56 (Water Mains Meter)	1002		0	0	0	0.1	0.1	14	21.1	78.9	3		
	House 57 (Water Mains Meter)	1002		0	0	0	0	0.1	4	21.3	78.6	2		
House 58 (Water Mains Meter)	1003		0	0	0	0.1	0.1	4	21.4	78.5	2			
House 59 (Water Mains Meter)	1003		0	0	0	0	0.1	10	21.2	78.8	3			
House 60 (Water Mains Meter)	1002		0	0	0	0.1	0.1	11	21.3	78.6	2			
House 61 (Water Mains Meter)	1002		0	0	0	0.1	0.1	7	21.4	78.5	2			
House 62 (Water Mains Meter)	1002		0	0	0	0.1	0.1	5	21.4	78.5	2			

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Table A - 13.52 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, September 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
24/09/2018	House 25 (Radon Sump)	1039	0	0	0	0.1	0.1	4	23.2	76.6	2		
	House 26 (Radon Sump)	1039	0	0	0	0.1	0.1	5	23.3	76.7	1		
	House 27 (Radon Sump)	1039	0	0	0	0.1	0.1	4	23.3	76.7	2		
	House 28 (Radon Sump)	1039	0	0	0	0.1	0.1	5	23.3	76.6	1		
	House 29 (Radon Sump)	1039	0	0	0	0.1	0.1	5	23.3	76.6	1		
	House 30 (Radon Sump)	1039	0	0	0	0.2	0.2	5	23.3	76.6	1		
	House 31 (Radon Sump)	1039	0	0	0	0.1	0.2	6	23.3	76.7	1		
	House 32 (Radon Sump)	1039	0	0	0	0.1	0.1	5	23.3	76.6	2		
	House 33 (Radon Sump)												
	House 34 (Radon Sump)												
	House 52 (Radon Sump)	1039	0	0	0	0.1	0.1	4	23.4	76.6	2		
	House 53 (Radon Sump)	1039	0	0	0	0.1	0.1	5	23.3	76.6	1		
	House 54 (Radon Sump)												
	House 55 (Radon Sump)	1039	0	0	0	0.3	0.3	5	23.1	76.6	1		
	House 56 (Radon Sump)	1039	0	0	0	0.3	0.3	4	23.3	76.5	1		
	House 57 (Radon Sump)	1039	0	0	0	0.2	0.3	5	23.4	76.4	1		
	House 58 (Radon Sump)	1039	0	0	0	0.1	0.2	4	23.4	76.5	2		
	House 59 (Radon Sump)	1039	0	0	0	0.1	0.1	4	23.4	76.4	1		
	House 60 (Radon Sump)	1039	0	0	0	0.2	0.2	4	23.4	76.5	1		
	House 61 (Radon Sump)												
	House 62 (Radon Sump)	1039	0	0	0	0.1	0.1	4	23.5	76.4	2		
	House 63 (Radon Sump)	1039	0	0	0	0.1	0.1	5	23.5	76.4	1		
	Storm Drain (ST1)	1037	0	0	0	0.1	0.2	4	23.3	76.6	2		
	Storm Drain (ST2)	1039	0	0	0	0.1	0.1	4	23.3	76.6	2		
	Surface Water Monitoring Drain (SW2)	1039	0	0	0	0.1	0.1	4	23.4	76.6	1		
	Surface Water Monitoring Drain (SW3)	1039	0	0	0	0.1	0.1	5	23.3	76.6	1		
	House 25 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	22.7	77.2	2	0	
	House 26 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	22.6	77.3	2	0.6	
	House 27 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	22.8	77.1	1	1.2	
	House 28 (Water Mains Meter)	1038	0	0	0	0.1	0.1	2	22.9	77	1	0	
	House 29 (Water Mains Meter)	1040	0	0	0	0	0.1	2	22.9	77	1	0	
	House 30 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	23.1	76.8	1	0.7	
	House 31 (Water Mains Meter)	1040	0	0	0	0	0.1	2	23.2	76.6	2	2.2	
	House 32 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	23.2	76.7	1	0.4	
	House 33 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	23.4	76.6	2	0	
	House 34 (Water Mains Meter)	1040	0	0	0	0	0.1	2	23.3	76.6	2	0.2	
	House 52 (Water Mains Meter)	1039	0	0	0	0.1	0.1	3	23.4	76.6	2	1.3	
	House 53 (Water Mains Meter)	1040	0	0	0	0	0.1	3	23.3	76.6	2	4.2	
	House 54 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	23.5	76.5	1	0.3	
	House 55 (Water Mains Meter)	1040	0	0	0	0.1	0.1	2	23.4	76.5	1	3.8	
House 56 (Water Mains Meter)	1040	0	0	0	0.1	0.1	7	23.3	76.6	2	2.2		
House 57 (Water Mains Meter)	1040	0	0	0	0.1	0.1	4	23.4	76.5	2	4.8		
House 58 (Water Mains Meter)	1040	0	0	0	0	0.1	2	23.4	76.5	2	5		
House 59 (Water Mains Meter)	1040	0	0	0	0.1	0.1	3	23.4	76.5	2	4.1		
House 60 (Water Mains Meter)	1040	0	0	0	0	0.1	2	23.4	76.5	2	5		
House 61 (Water Mains Meter)	1040	0	0	0	0	0.1	4	23.3	76.6	1	7.5		
House 62 (Water Mains Meter)	1040	0	0	0	0	0.1	6	23.4	76.6	2	11.3		
House 63 (Water Mains Meter)	1040	0	0	0	0.1	0.1	4	23.3	76.6	2	9.2		
House 64 (Water Mains Meter)	1040	0	0	0	0.2	0.2	4	23.2	76.7	2	2.4		

Table A - 13.53 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
01/10/2018	House 25 (Radon Sump)	1030	0	0	0	0.1	0.1	1	20.9	78.9	0	2.5	
	House 26 (Radon Sump)	1029	0	0	0	0.1	0.1	1	20.9	79	0	0.7	
	House 27 (Radon Sump)	1029	0	0	0	0.1	0.1	2	20.7	78.9	0	1.2	
	House 28 (Radon Sump)	1029	0	0	0	0.4	0.4	1	20.7	78.9	0	0	
	House 29 (Radon Sump)	1029	0	0	0	0.2	0.2	1	21	78.8	0	0.4	
	House 30 (Radon Sump)	1029	0	0	0	0.2	0.2	1	21.2	78.6	0	0.8	
	House 31 (Radon Sump)	1029	0	0	0	0.1	0.1	2	21.4	78.6	0	1.8	
	House 32 (Radon Sump)	1029	0	0	0	0.1	0.1	2	21.4	78.5	0	1.5	
	House 33 (Radon Sump)												
	House 34 (Radon Sump)												
	House 52 (Radon Sump)	1029	0	0	0	0.1	0.1	1	21.8	78.2	0	0	
	House 53 (Radon Sump)	1029	0	0	0	0.1	0.1	2	21.7	78.2	1	0.7	
	House 54 (Radon Sump)												
	House 55 (Radon Sump)	1029	0	0	0	0.3	0.3	1	21.6	78.2	0	1.2	
	House 56 (Radon Sump)	1029	0	0	0	0.2	0.3	1	21.8	78	0	1.4	
	House 57 (Radon Sump)	1029	0	0	0	0.2	0.3	1	21.8	78	0	3.1	
	House 58 (Radon Sump)	1029	0	0	0	0.3	0.3	1	21.8	78.1	1	1.7	
	House 59 (Radon Sump)	1029	0	0	0	0.1	0.2	2	21.8	78.1	0	1.1	
	House 60 (Radon Sump)	1029	0	0	0	0.2	0.3	1	21.7	78.1	0	1.6	
	House 61 (Radon Sump)	1029	0	0	0	0.8	0.8	1	21.3	77.9	1	1.4	
	House 62 (Radon Sump)	1029	0	0	0	0.2	0.8	1	21.7	78.1	0	1.5	
	House 63 (Radon Sump)	1029	0	0	0	0.1	0.2	1	21.8	78.1	0	2.4	
	Storm Drain (ST1)	1029	0	0	0	0.1	0.1	2	21.5	78.4	0	1.5	
	Storm Drain (ST2)	1029	0	0	0	0.1	0.1	1	21.6	78.3	0	0.8	
	Surface Water Monitoring Drain (SW2)	1028	0	0	0	0.1	0.1	2	21.8	78.2	0	2.5	
	Surface Water Monitoring Drain (SW3)	1028	0	0	0	0.1	0.1	2	21.8	78.2	0	2.2	
	House 25 (Water Mains Meter)	1029	0	0	0	0.1	0.1	1	21.6	78.3	0	6	
	House 26 (Water Mains Meter)	1029	0	0	0	0.1	0.1	1	21.5	78.3	0	5.1	
	House 27 (Water Mains Meter)	1029	0	0	0	0	0.1	2	21.5	78.4	1	4.5	
	House 28 (Water Mains Meter)	1029	0	0	0	0.1	0.1	2	21.7	78.3	0	3	
	House 29 (Water Mains Meter)	1029	0	0	0	0.1	0.1	2	21.6	78.3	0	3.6	
	House 30 (Water Mains Meter)	1029	0	0	0	0	0.1	1	21.7	78.3	0	2.6	
	House 31 (Water Mains Meter)	1029	0	0	0	0.1	0.1	2	21.7	78.2	1	3.4	
	House 32 (Water Mains Meter)	1029	0	0	0	0.1	0.1	1	21.7	78.2	0	4.4	
	House 33 (Water Mains Meter)	1026	0	0	0	0.1	0.1	1	21.8	78.1	1	2.7	
	House 34 (Water Mains Meter)	1029	0	0	0	0	0.1	1	21.8	78.2	1	4.2	
	House 52 (Water Mains Meter)	1028	0	0	0	0.1	0.1	1	21.9	78.1	1	2.7	
	House 53 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.8	78.2	0	5.2	
	House 54 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.8	78.1	0	2	
	House 55 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78.1	0	1.7	
	House 56 (Water Mains Meter)	1028	0	0	0	0	0.1	3	21.8	78.2	1	3.3	
	House 57 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78.1	0	4	
House 58 (Water Mains Meter)	1028	0	0	0	0	0.1	2	21.9	78.1	0	2.7		
House 59 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78.1	1	2.4		
House 60 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78	1	2.7		
House 61 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78	0	6.1		
House 62 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78.1	1	6.9		
House 63 (Water Mains Meter)	1028	0	0	0	0.1	0.1	2	21.9	78	1	2.1		

Table A - 13.54 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
08/10/2018	House 25 (Radon Sump)	1013	0	0	0	0.1	0.1	3	21.2	78.7	1		
	House 26 (Radon Sump)	1013	0	0	0	0.1	0.1	3	21.2	78.7	1		
	House 27 (Radon Sump)	1013	0	0	0	0.1	0.1	4	21.2	78.7	1		
	House 28 (Radon Sump)	1013	0	0	0	0.1	0.1	3	21.2	78.6	1		
	House 29 (Radon Sump)												
	House 30 (Radon Sump)	1013	0	0	0	0.1	0.2	4	21.2	78.6	1		
	House 31 (Radon Sump)	1013	0	0	0	0.1	0.1	4	21.3	78.6	1		
	House 32 (Radon Sump)	1013	0	0	0	0.1	0.1	4	21.3	78.6	1		
	House 33 (Radon Sump)												
	House 34 (Radon Sump)												
	House 52 (Radon Sump)	1013	0	0	0	0.1	0.1	4	21.3	78.6	1		
	House 53 (Radon Sump)	1013	0	0	0	0.1	0.1	4	21.2	78.6	1		
	House 54 (Radon Sump)												
	House 55 (Radon Sump)	1013	0	0	0	0.1	0.4	4	20.9	78.7	1		
	House 56 (Radon Sump)	1013	0	0	0	0.1	0.4	3	21.3	78.5	1		
	House 57 (Radon Sump)	1013	0	0	0	0.2	0.2	4	21.3	78.5	1		
	House 58 (Radon Sump)	1013	0	0	0	0.2	0.2	4	21.3	78.5	1		
	House 59 (Radon Sump)	1013	0	0	0	0.3	0.3	4	21.3	78.4	1		
	House 60 (Radon Sump)	1013	0	0	0	0.1	0.3	4	21.4	78.5	1		
	House 61 (Radon Sump)												
	House 62 (Radon Sump)												
	House 63 (Radon Sump)	1013	0	0	0	0.1	0.1	4	21.5	78.5	1		
	Storm Drain (ST1)	1012	0	0	0	0.1	0.2	3	21.2	78.7	1		
	Storm Drain (ST2)	1013	0	0	0	0.1	0.1	3	21.3	78.7	1		
	Surface Water Monitoring Drain (SW2)	1012	0	0	0	0.1	0.1	4	21.5	78.4	1		
	Surface Water Monitoring Drain (SW3)	1012	0	0	0	0.1	0.1	3	21.2	78.7	1		
	House 25 (Water Mains Meter)	1012	0	0	0	0.1	0.1	2	21.4	78.6	1		
	House 26 (Water Mains Meter)	1014	0	0	0	0.1	0.1	2	21.2	78.7	1		
	House 27 (Water Mains Meter)	1014	0	0	0	0	0.1	2	21.3	78.7	1		
	House 28 (Water Mains Meter)	1014	0	0	0	0	0.1	3	21.4	78.5	1		
	House 29 (Water Mains Meter)	1014	0	0	0	0.1	0.1	2	21.4	78.6	2		
	House 30 (Water Mains Meter)	1014	0	0	0	0.1	0.1	3	21.4	78.5	1		
	House 31 (Water Mains Meter)	1014	0	0	0	0.1	0.1	3	21.4	78.5	1		
	House 32 (Water Mains Meter)	1014	0	0	0	0.1	0.1	2	21.3	78.6	2		
	House 33 (Water Mains Meter)	1014	0	0	0	0.1	0.1	3	21.4	78.5	1		
	House 34 (Water Mains Meter)	1015	0	0	0	0.1	0.1	3	21.4	78.5	1		
	House 52 (Water Mains Meter)	1014	0	0	0	0	0.1	3	21.5	78.5	1		
	House 53 (Water Mains Meter)	1014	0	0	0	0	0.1	3	21.5	78.5	2		
	House 54 (Water Mains Meter)	1014	0	0	0	0.1	0.1	3	21.5	78.4	2		
	House 55 (Water Mains Meter)	1014	0	0	0	0.1	0.1	3	21.5	78.4	1		
	House 56 (Water Mains Meter)	1014	0	0	0	0	0.1	4	21.5	78.4	1		
	House 57 (Water Mains Meter)	1014	0	0	0	0	0	5	21.5	78.4	2		
House 58 (Water Mains Meter)	1014	0	0	0	0	0.1	4	21.6	78.4	1			
House 59 (Water Mains Meter)	1014	0	0	0	0.1	0.1	3	21.6	78.4	1			
House 60 (Water Mains Meter)	1014	0	0	0	0	0.1	3	21.6	78.4	1			
House 61 (Water Mains Meter)	1014	0	0	0	0	0.1	4	21.6	78.4	1			
House 62 (Water Mains Meter)	1014	0	0	0	0.1	0.1	4	21.6	78.3	1			
House 63 (Water Mains Meter)	1014	0	0	0	0.2	0.2	4	21.4	78.4	1			

Table A - 13.55 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
15/10/2018	House 25 (Radon Sump)	1016	0	0	0	0.1	0.1	4	21	78.9	2	
	House 26 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21	78.9	2	
	House 27 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21	79	2	
	House 28 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21	78.9	2	
	House 29 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.1	78.9	2	
	House 30 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.1	78.8	2	
	House 31 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.2	78.7	2	
	House 32 (Radon Sump)	1016	0	0	0	0.1	0.1	6	21.3	78.6	2	
	House 33 (Radon Sump)	1016	0	0	0	0.1	0.1	6	21.4	78.5	2	
	House 34 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.5	78.5	2	
	House 52 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.6	78.3	2	
	House 53 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.6	78.3	2	
	House 54 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.6	78.3	2	
	House 55 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.7	78.2	1	
	House 56 (Radon Sump)	1016	0	0	0	0.1	0.1	6	21.7	78.2	2	
	House 57 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.8	78.2	2	
	House 58 (Radon Sump)	1016	0	0	0	0.1	0.1	6	21.8	78.1	2	
	House 59 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.8	78.1	2	
	House 60 (Radon Sump)	1016	0	0	0	0.1	0.1	6	21.9	78	2	
	House 61 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21.9	78	2	
	House 62 (Radon Sump)	1016	0	0	0	0.1	0.1	5	22	78	2	
	House 63 (Radon Sump)	1016	0	0	0	0.1	0.1	5	21	78.9	2	
	Storm Drain (ST1)	1016	0	0	0	0.1	0.1	5	21	78.9	2	
	Storm Drain (ST2)	1016	0	0	0	0.1	0.1	4	21	78.9	2	
	Surface Water Monitoring Drain (SW2)	1016	0	0	0	0.1	0.1	5	21.9	78	2	
	Surface Water Monitoring Drain (SW3)	1016	0	0	0	0.1	0.1	5	21.9	78	2	
	House 25 (Water Mains Meter)	1016	0	0	0	0.1	0.1	2	21.3	78.6	1	
	House 26 (Water Mains Meter)	1016	0	0	0	0.1	0.1	1	21.3	78.6	1	
	House 27 (Water Mains Meter)	1016	0	0	0	0.1	0.1	2	21.3	78.6	1	
	House 28 (Water Mains Meter)	1016	0	0	0	0	0.1	2	21.4	78.6	1	
	House 29 (Water Mains Meter)	1016	0	0	0	0.1	0.1	2	21.3	78.6	1	
	House 30 (Water Mains Meter)	1016	0	0	0	0.1	0.1	2	21.4	78.6	1	
	House 31 (Water Mains Meter)	1016	0	0	0	0	0.1	2	21.3	78.6	2	
	House 32 (Water Mains Meter)	1016	0	0	0	0.1	0.1	3	21.2	78.7	1	
	House 33 (Water Mains Meter)	1016	0	0	0	0.1	0.1	2	21.3	78.6	1	
	House 34 (Water Mains Meter)	1016	0	0	0	0.1	0.1	3	21.4	78.6	2	
	House 52 (Water Mains Meter)	1016	0	0	0	0	0.1	3	21.4	78.6	2	
	House 53 (Water Mains Meter)	1016	0	0	0	0	0.1	2	21.3	78.6	1	
	House 54 (Water Mains Meter)	1016	0	0	0	0.1	0.1	2	21.3	78.6	1	
	House 55 (Water Mains Meter)	1016	0	0	0	0	0.1	2	21.4	78.6	1	
	House 56 (Water Mains Meter)	1016	0	0	0	0	0.1	2	21.4	78.6	1	
	House 57 (Water Mains Meter)	1016	0	0	0	0	0	3	21.4	78.6	1	
	House 58 (Water Mains Meter)	1016	0	0	0	0	0	3	21.4	78.6	1	
	House 59 (Water Mains Meter)	1016	0	0	0	0	0	4	21.3	78.6	2	
House 60 (Water Mains Meter)	1016	0	0	0	0.1	0.1	3	21.3	78.6	1		
House 61 (Water Mains Meter)	1016	0	0	0	0	0.1	4	21.3	78.6	2		
House 62 (Water Mains Meter)	1016	0	0	0	0	0	4	21.3	78.6	2		
House 63 (Water Mains Meter)	1016	0	0	0	0.2	0.2	3	21.1	78.6	2		
House 64 (Water Mains Meter)	1016	0	0	0	0	0.2	4	21.3	78.6	2		

Table A - 13.56 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
22/10/2018	House 25 (Radon Sump)	1041	0	0	0	0.1	0.1	1	20.8	79.1	1	
	House 26 (Radon Sump)	1041	0	0	0	0.1	0.1	1	20.9	79.1	1	
	House 27 (Radon Sump)	1041	0	0	0	0.1	0.1	2	20.9	79	1	
	House 28 (Radon Sump)	1041	0	0	0	0.1	0.1	2	20.9	79	1	
	House 29 (Radon Sump)	1041	0	0	0	0.3	0.3	2	20.8	78.9	1	
	House 30 (Radon Sump)	1041	0	0	0	0.1	0.1	1	21	78.9	0	
	House 31 (Radon Sump)	1041	0	0	0	0.1	0.1	1	21	78.9	1	
	House 32 (Radon Sump)	1041	0	0	0	0.1	0.1	1	21	78.9	1	
	House 33 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21.1	78.8	1	
	House 34 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21.1	78.8	1	
	House 52 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21.1	78.8	1	
	House 53 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21.1	78.8	1	
	House 54 (Radon Sump)	1041	0	0	0	0.1	0.1	2	20.9	78.8	1	
	House 55 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21.1	78.8	1	
	House 56 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21	78.8	1	
	House 57 (Radon Sump)	1041	0	0	0	0.1	0.1	1	21.1	78.9	1	
	House 58 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21	78.8	1	
	House 59 (Radon Sump)	1041	0	0	0	0.1	0.1	1	21.1	78.9	1	
	House 60 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21.1	78.9	1	
	House 61 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21	78.9	1	
	House 62 (Radon Sump)	1041	0	0	0	0.1	0.1	2	21	78.9	1	
	House 63 (Radon Sump)	1041	0	0	0	0.1	0.2	1	20.9	79	1	
	Storm Drain (ST1)	1041	0	0	0	0.1	0.1	1	20.9	79	1	
	Storm Drain (ST2)	1041	0	0	0	0.1	0.1	1	21	78.9	1	
	Surface Water Monitoring Drain (SW2)	1040	0	0	0	0.1	0.1	0	21.3	78.6	0	
	Surface Water Monitoring Drain (SW3)	1040	0	0	0	0.1	0.1	1	21.2	78.7	1	
	House 25 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.7	0	
	House 26 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.7	0	
	House 27 (Water Mains Meter)	1041	0	0	0	0.1	0.1	2	21.2	78.8	0	
	House 28 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.7	1	
	House 29 (Water Mains Meter)	1041	0	0	0	0.1	0.1	2	21.2	78.8	0	
	House 30 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.7	1	
	House 31 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.7	1	
	House 32 (Water Mains Meter)	1041	0	0	0	0.1	0.1	2	21.2	78.7	0	
	House 33 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.6	1	
	House 34 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.7	1	
	House 52 (Water Mains Meter)	1041	0	0	0	0.1	0.1	2	21.4	78.6	0	
	House 53 (Water Mains Meter)	1041	0	0	0	0	0.1	1	21.3	78.6	1	
	House 54 (Water Mains Meter)	1041	0	0	0	0.1	0.1	1	21.3	78.8	0	
	House 55 (Water Mains Meter)	1041	0	0	0	0	0.1	1	21.4	78.7	1	
	House 56 (Water Mains Meter)											
	House 57 (Water Mains Meter)											
	House 58 (Water Mains Meter)											
	House 59 (Water Mains Meter)											
House 60 (Water Mains Meter)												
House 61 (Water Mains Meter)												
House 62 (Water Mains Meter)												
House 63 (Water Mains Meter)												
House 64 (Water Mains Meter)												

Table A - 13.57 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, October 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
30/10/2018	House 25 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.9	78	0	0
	House 26 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.2	0	0
	House 27 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.5	78.4	0	0
	House 28 (Radon Sump)	999	0	0	0	0.1	0.1	3	21.5	78.4	0	0
	House 29 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.2	1	0
	House 30 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.2	0	0
	House 31 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.7	78.2	0	0
	House 32 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.3	0	0
	House 33 (Radon Sump)	999	0	0	0	0.1	0.2	2	21.6	78.2	1	0
	House 34 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.2	0	0
	House 52 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.2	0	0
	House 53 (Radon Sump)	999	0	0	0	0.1	0.2	3	21.6	78.3	0	0
	House 54 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.6	78.2	0	0
	House 55 (Radon Sump)	999	0	0	0	0.1	0.5	3	21.5	78.2	0	0
	House 56 (Radon Sump)	999	0	0	0	0.1	0.2	2	21.7	78.2	0	0
	House 57 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.7	78.2	0	0
	House 58 (Radon Sump)	999	0	0	0	0.1	0.1	3	21.7	78.2	0	0
	House 59 (Radon Sump)	999	0	0	0	0.1	0.1	2	21.7	78.2	0	0
	House 60 (Radon Sump)	999	0	0	0	0.1	0.1	3	21.7	78.2	0	0
	House 61 (Radon Sump)	999	0	0	0	0.1	0.1	3	21.7	78.3	0	0
	House 62 (Radon Sump)	999	0	0	0	0.1	0.1	3	21.7	78.3	0	0
	House 63 (Radon Sump)	999	0	0	0	0.1	0.1	3	21.7	78.3	0	0
	Storm Drain (ST1)	999	0	0	0	0.1	0.1	2	21.9	78	0	0
	Storm Drain (ST2)	999	0	0	0	0.1	0.1	2	21.9	78	0	0
	Surface Water Monitoring Drain (SW2)	999	0	0	0	0.1	0.1	3	21.6	78.3	0	0
	Surface Water Monitoring Drain (SW3)	999	0	0	0	0.1	0.1	3	21.6	78.3	0	0
	House 25 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.1	78.8	0	3.4
	House 26 (Water Mains Meter)	1000	0	0	0	0.1	0.1	2	21.1	78.8	0	5.6
	House 27 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.1	78.8	0	11.5
	House 28 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.1	78.9	0	2.5
	House 29 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.1	78.9	0	3.6
	House 30 (Water Mains Meter)	1000	0	0	0	0.1	0.1	2	21.1	78.8	0	5.5
	House 31 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.1	78.8	0	0
	House 32 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.2	78.7	0	0
	House 33 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.4	78.6	0	0.3
	House 34 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.4	78.6	0	0
	House 52 (Water Mains Meter)	1000	0	0	0	0.1	0.1	2	21.1	78.8	0	0
	House 53 (Water Mains Meter)	1000	0	0	0	0.1	0.1	2	20.9	79	0	0
	House 54 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21	78.9	0	0
	House 55 (Water Mains Meter)	1000	0	0	0	0.1	0.1	3	21.1	78.9	0	0
	House 56 (Water Mains Meter)	1000	0	0	0	0	0.1	3	21.1	78.9	0	0
	House 57 (Water Mains Meter)	1000	0	0	0	0.1	0.1	3	21.1	78.8	0	0
	House 58 (Water Mains Meter)	1000	0	0	0	0.1	0.1	3	21.1	78.8	0	0
	House 59 (Water Mains Meter)	1000	0	0	0	0	0.1	3	21.1	78.8	0	0
	House 60 (Water Mains Meter)	1000	0	0	0	0	0.1	3	21.2	78.8	0	0
	House 61 (Water Mains Meter)	1000	0	0	0	0.1	0.1	3	21.1	78.9	0	0
	House 62 (Water Mains Meter)	1000	0	0	0	0.1	0.1	2	21.1	78.8	0	0
	House 63 (Water Mains Meter)	1000	0	0	0	0	0.1	3	21.2	78.8	0	0
House 64 (Water Mains Meter)	1000	0	0	0	0	0.1	3	21.1	78.8	0	0	

Table A - 13.58 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
05/11/2018	House 25 (Radon Sump)	1002	0	0	0	0.1	0.1	1	21.5	78.4	1	11
	House 26 (Radon Sump)	1002	0	0	0	0.1	0.1	1	21.5	78.3	1	11.3
	House 27 (Radon Sump)	1002	0	0	0	0.1	0.1	1	21.4	78.5	1	8.5
	House 28 (Radon Sump)	1002	0	0	0	0.4	0.4	1	21.2	78.3	0	8.6
	House 29 (Radon Sump)											
	House 30 (Radon Sump)											
	House 31 (Radon Sump)	1002	0	0	0	0.2	0.4	2	21.5	78.3	1	7.9
	House 32 (Radon Sump)	1002	0	0	0	0.1	0.1	2	21.7	78.2	1	8.8
	House 33 (Radon Sump)	1002	0	0	0	0.1	0.2	1	21.6	78.3	1	7.9
	House 34 (Radon Sump)											
	House 52 (Radon Sump)	1002	0	0	0	0.7	0.7	1	21.2	78	1	10.3
	House 53 (Radon Sump)	1002	0	0	0	0.1	0.7	2	21.5	78.3	1	10.8
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1002	0	0	0	0.2	0.4	1	21.5	78.1	1	9.8
	House 56 (Radon Sump)	1002	0	0	0	0.2	0.3	1	21.7	78.1	1	12.1
	House 57 (Radon Sump)	1002	0	0	0	0.1	0.1	1	21.8	78.1	1	12.3
	House 58 (Radon Sump)	1002	0	0	0	0.2	0.2	2	21.8	78	1	10.5
	House 59 (Radon Sump)											
	House 60 (Radon Sump)	1002	0	0	0	0.2	0.2	2	21.8	78	1	10.8
	House 61 (Radon Sump)	1002	0	0	0	0.4	0.4	2	21.6	78	1	11.2
	House 62 (Radon Sump)											
	House 63 (Radon Sump)	1002	0	0	0	0.3	0.3	1	21.7	78.1	1	11.6
	Storm Drain (ST1)	1001	0	0	0	0.1	0.1	1	21.3	78.6	1	7.8
	Storm Drain (ST2)	1002	0	0	0	0.1	0.1	1	21.4	78.5	0	8.4
	Surface Water Monitoring Drain (SW2)											
	Surface Water Monitoring Drain (SW3)	1002	0	0	0	0.1	0.1	2	21.6	78.6	1	7.3
	House 25 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	21.9	78	1	12.2
	House 26 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	1	12.9
	House 27 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	78	1	11.7
	House 28 (Water Mains Meter)	1002	0	0	0	0.1	0.1	2	22	77.9	1	12.6
	House 29 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	78	2	13.1
	House 30 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	2	11.2
	House 31 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	1	11.2
	House 32 (Water Mains Meter)	1002	0	0	0	0.1	0.1	3	21.9	78.1	1	12.5
	House 33 (Water Mains Meter)	1002	0	0	0	0.1	0.1	2	22	77.9	1	9.2
	House 34 (Water Mains Meter)	1002	0	0	0	0.1	0.1	2	22	77.9	1	12.2
	House 52 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	1	8.4
	House 53 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	78	1	8.6
	House 54 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	1	9.4
	House 55 (Water Mains Meter)	1001	0	0	0	0	0.1	2	22	77.9	2	9
	House 56 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	2	9.1
	House 57 (Water Mains Meter)	1001	0	0	0	0.1	0.1	3	22	77.9	2	13.8
House 58 (Water Mains Meter)	1001	0	0	0	0.1	0.1	3	22	77.9	1	14.4	
House 59 (Water Mains Meter)	1001	0	0	0	0.1	0.1	2	22	77.9	1	13.9	
House 60 (Water Mains Meter)	1001	0	0	0	0.1	0.1	3	22	77.9	2	13	
House 61 (Water Mains Meter)	1001	0	0	0	0.1	0.1	3	22	77.9	1	13.2	
House 62 (Water Mains Meter)												
House 63 (Water Mains Meter)	1001	0	0	0	0.2	0.2	2	21.9	77.9	1	14	

Table A - 13.59 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
13/11/2018	House 25 (Radon Sump)	1015	0	0	0	0.1	0.2	1	21.9	78	1		
	House 26 (Radon Sump)	1015	0	0	0	0.1	0.1	1	21.7	78.2	0		
	House 27 (Radon Sump)	1015	0	0	0	0.1	0.1	1	21.7	78.2	1		
	House 28 (Radon Sump)	1015	0	0	0	0.1	0.2	2	21.6	78.2	0		
	House 29 (Radon Sump)												
	House 30 (Radon Sump)												
	House 31 (Radon Sump)	1015	0	0	0	0.1	0.2	1	21.6	78.3	0		
	House 32 (Radon Sump)	1015	0	0	0	0.1	0.2	2	21.6	78.3	0		
	House 33 (Radon Sump)												
	House 34 (Radon Sump)	1015	0	0	0	0.1	0.1	2	21.6	78.3	0		
	House 52 (Radon Sump)	1015	0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 53 (Radon Sump)	1015	0	0	0	0.1	0.1	2	21.6	78.3	1		
	House 54 (Radon Sump)												
	House 55 (Radon Sump)	1015	0	0	0	0.1	0.4	2	21.4	78.2	1		
	House 56 (Radon Sump)	1015	0	0	0	0.1	0.4	2	21.6	78.3	1		
	House 57 (Radon Sump)												
	House 58 (Radon Sump)	1015	0	0	0	0.2	0.2	2	21.6	78.1	1		
	House 59 (Radon Sump)	1015	0	0	0	0.3	0.3	2	21.6	78.1	1		
	House 60 (Radon Sump)	1015	0	0	0	0.2	0.3	2	21.8	78.2	1		
	House 61 (Radon Sump)	1015	0	0	0	0.4	0.4	2	21.7	77.9	1		
	House 62 (Radon Sump)	1015											
	House 63 (Radon Sump)	1015	0	0	0	0.3	0.4	2	21.7	78	1		
	Storm Drain (ST1)	1015	0	0	0	0.1	0.2	2	21.8	78.1	1		
	Storm Drain (ST2)	1015	0	0	0	0.1	0.1	2	21.8	78.1	1		
	Surface Water Monitoring Drain (SW2)	1015	0	0	0	0.1	0.1	2	21.8	78.1	1		
	Surface Water Monitoring Drain (SW3)	1015	0	0	0	0.1	0.1	2	21.8	78.1	1		
	House 25 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.2	77.7	0		
	House 26 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.2	77.7	0		
	House 27 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.2	77.8	0		
	House 28 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.2	77.8	1		
	House 29 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.2	77.8	0		
	House 30 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.1	77.8	0		
	House 31 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0		
	House 32 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.1	77.8	1		
	House 33 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.2	77.8	0		
	House 34 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.1	77.8	1		
	House 52 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.2	77.9	0		
	House 53 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.1	77.8	1		
	House 54 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.2	78	1		
	House 55 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.1	77.9	1		
	House 56 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.3	77.7	1		
	House 57 (Water Mains Meter)	1015	0	0	0	0.2	0.2	1	22	77.6	0		
House 58 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.2	77.7	0			
House 59 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	21.9	77.7	1			
House 60 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.2	77.8	1			
House 61 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.2	77.7	0			
House 62 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22	77.7	1			
House 63 (Water Mains Meter)	1015	0	0	0	0.1	0.2	1	22.3	77.8	1			

Table A - 13.60 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
19/11/2018	House 25 (Radon Sump)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 26 (Radon Sump)											
	House 27 (Radon Sump)											
	House 28 (Radon Sump)											
	House 29 (Radon Sump)	1024	0	0	0	0.1	0.1	0	22.3	77.6	0	
	House 30 (Radon Sump)											
	House 31 (Radon Sump)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 32 (Radon Sump)	1024	0	0	0	0.1	0.1	1	22.3	77.7	0	
	House 33 (Radon Sump)	1024	0	0	0	0.1	0.1	1	22.3	77.7	0	
	House 34 (Radon Sump)	1024	0	0	0	0.1	0.1	2	22.2	77.8	0	
	House 52 (Radon Sump)	1024	0	0	0	0.2	0.2	1	22	77.7	0	
	House 53 (Radon Sump)											
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1024	0	0	0	0.5	0.5	1	21.9	77.7	0	
	House 56 (Radon Sump)											
	House 57 (Radon Sump)	1024	0	0	0	0.4	0.4	1	21.9	77.7	0	
	House 58 (Radon Sump)	1024	0	0	0	0.2	0.3	1	21.9	77.8	0	
	House 59 (Radon Sump)	1024	0	0	0	0.2	0.2	1	22.1	77.8	0	
	House 60 (Radon Sump)	1024	0	0	0	0.1	0.4	1	22.1	77.9	0	
	House 61 (Radon Sump)	1024	0	0	0	0.3	0.3	1	22	77.7	0	
	House 62 (Radon Sump)	1024	0	0	0	0.1	0.4	1	22.1	77.8	0	
	House 63 (Radon Sump)											
	Storm Drain (ST1)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	Storm Drain (ST2)	1024	0	0	0	0.1	0.2	1	22.3	77.6	0	
	Surface Water Monitoring Drain (SW2)	1024	0	0	0	0.1	0.5	1	22.1	77.8	0	
	Surface Water Monitoring Drain (SW3)	1024	0	0	0	0.1	0.1	1	22.1	77.8	0	
	House 25 (Water Mains Meter)	1024	0	0	0	0.1	0.2	1	22.3	77.6	0	
	House 26 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 27 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 28 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 29 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 30 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 31 (Water Mains Meter)	1025	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 32 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.7	0	
	House 33 (Water Mains Meter)	1023	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 34 (Water Mains Meter)	1025	0	0	0	0.1	0.1	0	22.3	77.6	0	
	House 52 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 53 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.7	0	
	House 54 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.7	0	
	House 55 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	1	
	House 56 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0	
	House 57 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.7	1	
House 58 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0		
House 59 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0		
House 60 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.3	77.6	0		
House 61 (Water Mains Meter)	1024	0	0	0	0.1	0.1	1	22.4	77.7	1		
House 62 (Water Mains Meter)	1024	0	0	0	0.1	0.1	2	22.4	77.6	1		
House 63 (Water Mains Meter)	1024	0	0	0	0.2	0.2	1	22.3	77.6	0		

Table A - 13.61 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, November, 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
26/11/2018	House 25 (Radon Sump)	1015	0	0	0	0.1	0.1	0	22.2	77.7	0	4.4
	House 26 (Radon Sump)											
	House 27 (Radon Sump)											
	House 28 (Radon Sump)	1015	0	0	0	0.1	0.1	0	22.1	77.8	0	1.4
	House 29 (Radon Sump)											
	House 30 (Radon Sump)											
	House 31 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	1.2
	House 32 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	1.4
	House 33 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	0
	House 34 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	1.6
	House 52 (Radon Sump)	1015	0	0	0	0.6	0.7	1	21.7	77.6	0	3.4
	House 53 (Radon Sump)	1015	0	0	0	0.1	0.7	1	22.1	77.8	0	0.8
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1015	0	0	0	0.1	0.7	0	21.8	77.6	0	0.8
	House 56 (Radon Sump)	1015	0	0	0	0.1	0.6	1	22.1	77.8	0	0.8
	House 57 (Radon Sump)	1015	0	0	0	0.2	0.2	1	22	77.8	0	1.2
	House 58 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22	77.9	0	0.6
	House 59 (Radon Sump)											
	House 60 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22	77.9	0	1.8
	House 61 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	1.2
	House 62 (Radon Sump)											
	House 63 (Radon Sump)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	1.6
	Storm Drain (ST1)	1015	0	0	0	0.1	0.1	1	22.2	77.7	0	1.2
	Storm Drain (ST2)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	1.2
	Surface Water Monitoring Drain (SW2)	1015	0	0	0	0.1	0.1	1	22.2	77.7	0	4.4
	Surface Water Monitoring Drain (SW3)	1016	0	0	0	0.1	0.1	1	22.2	77.7	0	3
	House 25 (Water Mains Meter)	1015	0	0	0	0.2	0.2	0	22	77.8	0	3.4
	House 26 (Water Mains Meter)	1015	0	0	0	0.2	0.2	0	22	77.8	0	3.2
	House 27 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.1	77.8	0	9.2
	House 28 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	21.6	78.3	0	4.2
	House 29 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	21.7	78.2	1	5.4
	House 30 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	21.6	78.3	0	20.9
	House 31 (Water Mains Meter)	1015	0	0	0	0.1	0.2	1	21.7	78.3	0	8.4
	House 32 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	21.7	78.3	0	4
	House 33 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	21.6	78.4	0	3.8
	House 34 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	21.8	78.1	0	1
	House 52 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	21.9	78	0	22.6
	House 53 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	21.9	78	0	11.8
	House 54 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.1	77.8	0	2.4
	House 55 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.1	77.8	0	12.6
	House 56 (Water Mains Meter)	1015	0	0	0	0.1	0.1	2	22.2	77.8	0	22.6
	House 57 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.3	77.7	0	17.2
	House 58 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.3	77.7	0	20
House 59 (Water Mains Meter)	1015	0	0	0	0.1	0.1	0	22.3	77.6	0	41.8	
House 60 (Water Mains Meter)	1015	0	0	0	0.1	0.2	0	22.1	77.6	0	13.9	
House 61 (Water Mains Meter)	1015	0	0	0	0.1	0.1	1	22.3	77.6	0	28.8	
House 62 (Water Mains Meter)	1015	0	0	0	0.2	0.3	0	22.3	77.7	0	12.8	
House 63 (Water Mains Meter)	1015	0	0	0	0.3	0.3	0	22	77.7	0	5.8	

Table A - 13.62 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, December 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
03/12/2018	House 25 (Radon Sump)	1000	0	0	0	0.1	0.1	0	21.8	78.1	0	3.8
	House 26 (Radon Sump)											
	House 27 (Radon Sump)											
	House 28 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.2	0	1.6
	House 29 (Radon Sump)											
	House 30 (Radon Sump)											
	House 31 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	3.4
	House 32 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	1.6
	House 33 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	1.2
	House 34 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	1
	House 52 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	1.6
	House 53 (Radon Sump)											
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.1	1	1.2
	House 56 (Radon Sump)	1000	0	0	0	0.1	0.1	2	21.8	78.1	0	0.6
	House 57 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.1	0	1.2
	House 58 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.1	1	1.2
	House 59 (Radon Sump)											
	House 60 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.1	1	0.6
	House 61 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.1	0	0.4
	House 62 (Radon Sump)											
	House 63 (Radon Sump)	1000	0	0	0	0.1	0.1	1	21.8	78.1	0	0.2
	Storm Drain (ST1)	1000	0	0	0	0.1	0.1	1	21.8	78.2	0	5.6
	Storm Drain (ST2)	1000	0	0	0	0.1	0.1	1	21.8	78.1	0	3.6
	Surface Water Monitoring Drain (SW2)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	4.5
	Surface Water Monitoring Drain (SW3)	1000	0	0	0	0.1	0.1	1	21.8	78.1	0	1.2
	House 25 (Water Mains Meter)	999	0	0	0	0.1	0.1	0	21.9	77.9	0	1.4
	House 26 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.9	78	0	11.4
	House 27 (Water Mains Meter)	999	0	0	0	0.1	0.1	0	21.9	78	0	24
	House 28 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.9	78	0	4.6
	House 29 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.9	78	0	5.4
	House 30 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.9	78	0	15.2
	House 31 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.8	78.1	0	17.4
	House 32 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.8	78.1	0	3.4
	House 33 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.8	78.1	0	1.8
	House 34 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.8	78.1	0	2.8
	House 52 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.7	78.2	0	12
	House 53 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	16.4
	House 54 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.7	78.2	0	4
	House 55 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	15.6
	House 56 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.7	78.2	0	16.6
	House 57 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.7	78.2	0	18.1
	House 58 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.7	78.2	0	17.8
House 59 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	21.3	
House 60 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	22.2	
House 61 (Water Mains Meter)	1000	0	0	0	0.1	0.1	0	21.7	78.2	0	33.7	
House 62 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.7	78.2	0	55.8	
House 63 (Water Mains Meter)	1000	0	0	0	0.1	0.1	1	21.7	78.2	1	12.8	

Table A - 13.63 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, December 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
11/12/2018	House 25 (Radon Sump)	1018	0	0	0	0.1	0.1	1	21.8	78	0	0
	House 26 (Radon Sump)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78.1	0	0
	House 27 (Radon Sump)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78.1	0	0
	House 28 (Radon Sump)											
	House 29 (Radon Sump)	1018	0.1	0.1	2	0.2	0.2	1	21.7	78.1	0	0
	House 30 (Radon Sump)											
	House 31 (Radon Sump)											
	House 32 (Radon Sump)	1018	0.1	0.1	2	0.2	0.2	0	21.7	78.1	0	0
	House 33 (Radon Sump)	1018	0.1	0.1	2	0.1	0.2	1	21.7	78.1	0	0
	House 34 (Radon Sump)	1018	0	0.1	2	0.1	0.1	1	21.7	78.2	0	0
	House 52 (Radon Sump)											
	House 53 (Radon Sump)	1018	0.1	0.1	2	0.1	0.1	1	21.7	78.1	0	0
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1018	0.1	0.1	2	0.2	0.2	1	21.7	78.1	0	0
	House 56 (Radon Sump)	1018	0.1	0.1	2	0.2	0.2	1	21.7	78.1	0	0
	House 57 (Radon Sump)											
	House 58 (Radon Sump)	1018	0.1	0.1	2	0.2	0.2	1	21.7	78.1	0	0
	House 59 (Radon Sump)	1018	0.1	0.1	2	0.3	0.3	0	21.6	78.1	0	0
	House 60 (Radon Sump)	1018	0.1	0.1	2	0.2	0.3	1	21.7	78.1	0	0
	House 61 (Radon Sump)											
	House 62 (Radon Sump)											
	House 63 (Radon Sump)	1018	0.1	0.1	2	0.2	0.2	1	21.7	78.1	0	0
	Storm Drain (ST1)	1018	0.1	0.1	2	0.1	0.1	0	21.7	78	0	0
	Storm Drain (ST2)	1018	0.1	0.1	2	0.1	0.1	1	21.8	78.1	0	0
	Surface Water Monitoring Drain (SW2)	1018	0.1	0.1	2	0.1	0.2	1	21.8	78	0	0
	Surface Water Monitoring Drain (SW3)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78	0	0
	House 25 (Water Mains Meter)	1018	0	0	0	0.1	0.1	0	21.9	78	0	0.3
	House 26 (Water Mains Meter)	1018	0	0	0	0.1	0.1	0	21.8	78.1	0	0.9
	House 27 (Water Mains Meter)	1018	0	0	0	0.1	0.1	0	21.8	78	0	1.4
	House 28 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78	0	0
	House 29 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.9	77.9	0	2.6
	House 30 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.9	77.9	0	17.2
	House 31 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.9	77.9	0	10
	House 32 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78	0	2.2
	House 33 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78	0	0
	House 34 (Water Mains Meter)	1018	0	0	0	0.1	0.1	1	21.8	78.1	0	1.1
	House 52 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	78.1	0	3.5
	House 53 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	1	21.9	78	0	1.2
	House 54 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	77.9	0	0.3
	House 55 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	1	21.9	78	0	4.2
	House 56 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	1	21.8	77.8	0	5.3
	House 57 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	1	21.9	77.9	0	0
	House 58 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.9	77.7	0	2.1
House 59 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	77.9	0	9.8	
House 60 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.8	77.5	0	7.1	
House 61 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	1	21.9	78	0	6.3	
House 62 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	1	21.9	78.1	0	5.2	
House 63 (Water Mains Meter)	1018	0.1	0.1	2	0.1	0.1	0	21.9	78	0	1.2	

Table A - 13.64 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, December 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
17/12/2018	House 25 (Radon Sump)											
	House 26 (Radon Sump)											
	House 27 (Radon Sump)	1008	0	0	0	0.1	0.1	0	21.6	78.4	0	0
	House 28 (Radon Sump)	1008	0	0	0	0.1	0.1	0	21.5	78.4	0	0
	House 29 (Radon Sump)	1008	0	0	0	0.1	0.1	0	21.5	78.4	0	0
	House 30 (Radon Sump)											
	House 31 (Radon Sump)	1008	0	0	0	0	0.1	0	21.5	78.5	0	0
	House 32 (Radon Sump)											
	House 33 (Radon Sump)	1008	0	0	0	0	0	0	21.5	78.4	0	0
	House 34 (Radon Sump)	1008	0	0	0	0	0	0	21.5	78.4	0	0
	House 52 (Radon Sump)											
	House 53 (Radon Sump)											
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1008	0	0	0	0	0.3	0	21.4	78.3	0	0
	House 56 (Radon Sump)	1008	0	0	0	0.1	0.2	0	21.5	78.4	0	0
	House 57 (Radon Sump)											
	House 58 (Radon Sump)											
	House 59 (Radon Sump)											
	House 60 (Radon Sump)	1008	0	0	0	0.1	0.1	0	21.5	78.4	0	0
	House 61 (Radon Sump)											
	House 62 (Radon Sump)	1008	0	0	0	0	0.1	0	21.5	78.4	0	0
	House 63 (Radon Sump)	1008	0	0	0	0.2	0.2	0	21.4	78.4	0	0
	Storm Drain (ST1)	1008	0	0	0	0.1	0.1	0	21.6	78.3	0	0
	Storm Drain (ST2)	1008	0	0	0	0.1	0.1	0	21.5	78.4	0	0
	Surface Water Monitoring Drain (SW2)	1008	0	0	0	0.1	0.2	0	21.6	78.4	0	0
	Surface Water Monitoring Drain (SW3)	1008	0	0	0	0.1	0.2	0	21.5	78.5	0	0
	House 25 (Water Mains Meter)	1010	0	0	0	0	0	0	22	77.9	0	0
	House 26 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	3.3
	House 27 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	6.3
	House 28 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	2.7
	House 29 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	0.4
	House 30 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	6.4
	House 31 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	8.6
	House 32 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	0.4
	House 33 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	0
	House 34 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	0
	House 52 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	0
	House 53 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	5.7
	House 54 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	0
	House 55 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	52.3
House 56 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	9.5	
House 57 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	7.7	
House 58 (Water Mains Meter)												
House 59 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	4.1	
House 60 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	17.4	
House 61 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	7.1	
House 62 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	22.1	
House 63 (Water Mains Meter)	1009	0	0	0	0	0	0	22	78	0	7.3	

Table A - 13.65 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, January 2019

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
08/01/2019	House 25 (Radon Sump)	1033	0	0	0	0.1	0.1	0	21.9	78.1	0	0
	House 26 (Radon Sump)	1033	0	0	0	0.1	0.1	0	21.9	78.1	0	0
	House 27 (Radon Sump)											
	House 28 (Radon Sump)											
	House 29 (Radon Sump)											
	House 30 (Radon Sump)											
	House 31 (Radon Sump)	1033	0	0	0	0	0.1	0	21.8	78	0	0
	House 32 (Radon Sump)	1033	0	0	0	0	0.1	0	21.8	78.2	0	0
	House 33 (Radon Sump)	1033	0	0	0	0	0.1	0	21.7	78.2	0	0
	House 34 (Radon Sump)	1033	0	0	0	0	0.1	0	21.7	78.2	0	0
	House 52 (Radon Sump)	1033	0	0	0	0	0.1	0	22	78.1	0	0
	House 53 (Radon Sump)	1033	0	0	0	0	0.1	0	22	78.1	0	0
	House 54 (Radon Sump)											
	House 55 (Radon Sump)	1033	0	0	0	0	0.1	0	22	78.1	0	0
	House 56 (Radon Sump)	1034	0	0	0	0.1	0.1	0	21	78	0	0
	House 57 (Radon Sump)	1033	0.1	0.1	2	0	0	0	21.9	78.1	0	0
	House 58 (Radon Sump)											
	House 59 (Radon Sump)	1033	0.1	0.1	2	0	0	0	22	79.1	0	0
	House 60 (Radon Sump)											
	House 61 (Radon Sump)											
	House 62 (Radon Sump)	1033	0.1	0	0	0	0	0	22	78.2	0	0
	House 63 (Radon Sump)	1033	0	0	0	0.1	0.1	0	22	78.1	0	0
	Storm Drain (ST1)	1033	0	0	0	0	0	0	22	78	0	0
	Storm Drain (ST2)	1033	0	0	0	0	0	0	22	78	0	0
	Surface Water Monitoring Drain (SW2)	1033	0	0	0	0.1	0.1	0	21.7	78.3	0	0
	Surface Water Monitoring Drain (SW3)	1033	0	0	0	0	0.1	0	21.7	78.3	0	0
	House 25 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	22	78	0	0.2
	House 26 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	21.9	77.9	0	0.3
	House 27 (Water Mains Meter)	1033	0	0	0	0	0.1	0	21	78	0	0
	House 28 (Water Mains Meter)	1034	0	0	0	0	0	0	22	77.9	0	2.2
	House 29 (Water Mains Meter)	1034	0	0	0	0	0	0	22	77.9	0	0.6
	House 30 (Water Mains Meter)	1034	0	0	0	0.1	0.1	0	22	77.9	0	1.4
	House 31 (Water Mains Meter)	1034	0	0	0	0	0.1	0	22	78	0	1.5
	House 32 (Water Mains Meter)	1034	0	0	0	0	0.1	0	22	77.9	0	0
	House 33 (Water Mains Meter)	1034	0	0	0	0	0	0	22	77.9	0	0
	House 34 (Water Mains Meter)	1034	0	0	0	0	0.1	0	22	77.9	0	0.1
	House 52 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	22	78.1	0	0
	House 53 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	22	78.1	0	0
	House 54 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	21.9	78.6	0	0
	House 55 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	22	78.1	0	0
House 56 (Water Mains Meter)	1033	0	0	0	0	0.1	0	22	78.1	0	0	
House 57 (Water Mains Meter)	1034	0	0	0	0	0	0	22	78	0	0	
House 58 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	22	78.1	0	0	
House 59 (Water Mains Meter)	1033	0	0	0	0	0	0	22	78.2	0	0	
House 60 (Water Mains Meter)	1033	0	0	0	0.1	0.1	0	21.8	78.2	0	0	
House 61 (Water Mains Meter)	1034	0	0	0	0.1	0.1	0	22	78.1	0	0	
House 62 (Water Mains Meter)												
House 63 (Water Mains Meter)												

Table A - 13.66 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, January 2019

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
14/01/2019	House 25 (Radon Sump)												
	House 26 (Radon Sump)	1024	0	0.1	2	0	0.1	0	22.2	77.8	0	0	
	House 27 (Radon Sump)												
	House 28 (Radon Sump)	1024	0	0	0	0	0.1	0	22.2	77.8	0	0	
	House 29 (Radon Sump)												
	House 30 (Radon Sump)												
	House 31 (Radon Sump)												
	House 32 (Radon Sump)	1024	0	0	0	0	0.2	0	22	77.9	0	0	
	House 33 (Radon Sump)	1024	0	0	0	0	0.2	0	22.1	77.9	0	0	
	House 34 (Radon Sump)	1024	0	0	0	0	0.1	0	22.1	77.9	0	0	
	House 52 (Radon Sump)	1024	0	0	0	0	0	0	22.1	77.9	0	0	
	House 53 (Radon Sump)	1024	0	0	0	0	0	0	22.1	77.9	0	0	
	House 54 (Radon Sump)												
	House 55 (Radon Sump)												
	House 56 (Radon Sump)	1024	0	0	0	0	0.1	0.1	0	21.9	78	0	0
	House 57 (Radon Sump)	1024	0	0	0	0	0.1	0.1	0	22	77.9	0	0
	House 58 (Radon Sump)												
	House 59 (Radon Sump)	1024	0	0	0	0	0.1	0	22.1	77.9	0	0	
	House 60 (Radon Sump)	1024	0	0	0	0	0.1	0.1	0	22	77.9	0	0
	House 61 (Radon Sump)	1024	0	0.1	2	0.4	0.5	0	21.7	77.7	0	0	
	House 62 (Radon Sump)	1024	0	0	0	0.2	0.3	0	21.9	77.9	0	0	
	House 63 (Radon Sump)												
	Storm Drain (ST1)	1024	0	0	0	0	0	0	0	22.2	77.7	0	0
	Storm Drain (ST2)	1024	0	0	0	0	0.1	0.2	0	22	77.9	0	0
	Surface Water Monitoring Drain (SW2)	1024	0	0	0	0	0	0.1	0	22	77.9	0	0
	Surface Water Monitoring Drain (SW3)	1024	0	0	0	0	0	0	0	22.1	77.9	0	0
	House 25 (Water Mains Meter)	1024	0.1	0.1	2	0	0	0	21.6	78.3	0	0	
	House 26 (Water Mains Meter)	1024	0	0.1	2	0	0	0	21.6	78.3	0	6.2	
	House 27 (Water Mains Meter)	1024	0	0.1	2	0	0	0	21.7	78.2	0	27	
	House 28 (Water Mains Meter)	1024	0	0.1	2	0	0	0	21.8	78.2	0	7.5	
	House 29 (Water Mains Meter)	1024	0	0	0	0	0	0	21.8	78.1	0	1.4	
	House 30 (Water Mains Meter)	1024	0	0	0	0	0	0	21.9	78.1	0	13.4	
	House 31 (Water Mains Meter)	1024	0	0	0	0	0	0	21.9	78	0	10	
	House 32 (Water Mains Meter)	1024	0	0	0	0	0	0	21.9	78	0	2	
	House 33 (Water Mains Meter)	1024	0	0	0	0	0	0	22	77.9	0	0	
	House 34 (Water Mains Meter)	1024	0	0	0	0	0	0	22	77.9	0	0.6	
	House 52 (Water Mains Meter)	1024	0	0	0	0	0	0	22.1	77.9	0	5.6	
	House 53 (Water Mains Meter)	1024	0	0	0	0	0	1	22.1	77.9	0	13	
	House 54 (Water Mains Meter)	1024	0	0	0	0	0	0	22.1	77.8	0	0.1	
	House 55 (Water Mains Meter)	1024	0	0	0	0	0	0	22.1	77.8	0	62.9	
House 56 (Water Mains Meter)	1024	0	0.1	2	0	0	0	22.2	77.8	0	19.7		
House 57 (Water Mains Meter)	1024	0	0	0	0	0	0	22.2	77.8	0	10		
House 58 (Water Mains Meter)													
House 59 (Water Mains Meter)	1024	0	0	0	0	0	0	22.2	77.7	0	21.5		
House 60 (Water Mains Meter)	1024	0	0.1	2	0	0	0	22.2	77.7	0	27.1		
House 61 (Water Mains Meter)	1024	0	0	0	0	0	0	22.2	77.7	0	21.5		
House 62 (Water Mains Meter)	1024	0	0	0	0	0	0	22.2	77.7	0	34.2		
House 63 (Water Mains Meter)													

Table A - 13.67 Results of Landfill Gas Monitoring on Radon Sumps, Water Mains Foul Sewer at Barnegeernagh Cove, Skerries, County Dublin, January 2019

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/ Nitrogen (%)	H2S (ppm)	VOC (ppm)	
			STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING	
21/01/2019	House 25 (Radon Sump)												
	House 26 (Radon Sump)	1017	0	0	0	0.1	0.1	0	22.1	77.8	0	0	
	House 27 (Radon Sump)												
	House 28 (Radon Sump)	1017	0	0	0	0.3	0.4	0	22	77.7	0	0	
	House 29 (Radon Sump)												
	House 30 (Radon Sump)												
	House 31 (Radon Sump)	1017	0	0	0	0.1	0.1	0	22.1	77.9	0	0	
	House 32 (Radon Sump)	1017	0	0	0	0.1	0.1	0	22	77.9	0	0	
	House 33 (Radon Sump)												
	House 34 (Radon Sump)	1017	0	0	0	0.1	0.1	0	22.1	77.9	0	0	
	House 52 (Radon Sump)	1017	0	0	0	0.6	0.7	0	21.7	77.7	0	0	
	House 53 (Radon Sump)	1017	0	0	0	0.1	0.5	0	22	77.9	0	0	
	House 54 (Radon Sump)												
	House 55 (Radon Sump)												
	House 56 (Radon Sump)	1017	0	0	0	0.2	0.2	0	22	77.8	0	0	
	House 57 (Radon Sump)												
	House 58 (Radon Sump)	1017	0	0	0	0.2	0.2	0	22	77.9	0	0	
	House 59 (Radon Sump)												
	House 60 (Radon Sump)	1017	0	0	0	0.1	0.2	0	22.1	77.9	0	0	
	House 61 (Radon Sump)												
	House 62 (Radon Sump)												
	House 63 (Radon Sump)												
	Storm Drain (ST1)	1017	0	0	0	0	0.5	0	22.1	77.8	0	0	
	Storm Drain (ST2)	1017	0	0	0	0	0.1	0.1	0	22.1	77.8	0	0
	Surface Water Monitoring Drain (SW2)	1017	0	0	0	0	0.1	0	22.2	77.8	0	0	
	Surface Water Monitoring Drain (SW3)	1017	0	0	0	0	0.1	0	22.2	77.8	0	0	
	House 25 (Water Mains Meter)	1021	0	0	0	0.1	0.1	0	21.3	78.6	0	0	
	House 26 (Water Mains Meter)	1021	0	0	0	0	0.1	0	21.3	78.6	0	3.7	
	House 27 (Water Mains Meter)	1021	0	0	0	0	0	0	21.4	78.6	0	20.7	
	House 28 (Water Mains Meter)	1021	0	0	0	0	0	0	21.5	78.5	0	9.2	
	House 29 (Water Mains Meter)	1021	0	0	0	0	0	0	21.6	78.4	0	2.1	
	House 30 (Water Mains Meter)	1021	0	0	0	0	0	0	22	78	0	10.2	
	House 31 (Water Mains Meter)	1021	0	0	0	0	0	0	22.1	77.9	0	7.2	
	House 32 (Water Mains Meter)	1021	0	0	0	0.1	0.1	0	22.1	77.8	0	2.5	
	House 33 (Water Mains Meter)	1021	0	0	0	0	0.1	0	22.2	77.7	0	0	
	House 34 (Water Mains Meter)	1021	0	0	0	0	0	0	22.3	77.7	0	0.6	
	House 52 (Water Mains Meter)	1021	0	0	0	0	0	0	22.4	77.6	0	8.3	
	House 53 (Water Mains Meter)	1021	0	0	0	0	0	0	22.4	77.5	0	1.7	
	House 54 (Water Mains Meter)	1021	0	0	0	0	0	0	22.4	77.5	0	0.5	
	House 55 (Water Mains Meter)	1021	0	0	0	0	0.1	0	22.5	77.5	0	80.4	
	House 56 (Water Mains Meter)	1021	0	0	0	0	0	0	22.5	77.4	0	15.3	
	House 57 (Water Mains Meter)	1021	0	0	0	0	0	0	22.6	77.4	0	9.4	
House 58 (Water Mains Meter)													
House 59 (Water Mains Meter)	1021	0	0	0	0.1	0.1	0	22.6	77.3	0	11.9		
House 60 (Water Mains Meter)	1021	0	0	0	0	0.1	0	22.6	77.3	0	27.1		
House 61 (Water Mains Meter)	1021	0	0	0	0	0	0	22.6	77.3	0	21.6		
House 62 (Water Mains Meter)	1021	0	0	0	0	0	0	22.6	77.3	0	22.1		
House 63 (Water Mains Meter)	1021	0	0	0	0.1	0.1	0	22.6	77.3	0	3		

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**LANDFILL GAS MONITORING
RESULTS
FOR GAS PROBE SURVEYS
(15.03.2018 & 28.11.2018)
(TABLES A13.68A & A13.68B)**

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Table A13.68A Results of Landfill Gas Probe Survey at Temporary Monitoring Points (LF1 - LF16) Adjacent to Foul Sewer Rising Main at Barnageeragh Cove, Skerries, County Dublin on the 15th of March 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
15/03/2018	LF1	984	0.1	0.1	0.1	2	0.3	1.7	14	21.8	77.8	0	0
	LF2	985	0.1	0	0	0	0.3	0.3	0	21.8	77.9	0	0
	LF3	984	0.1	0	0.1	2	0.3	1	23	21.6	78.2	2	0
	LF4	984	0.1	0	0	0	0.1	0.1	0	21.7	78.1	0	0
	LF5	984	0.1	0	0	0	0.1	0.7	4	21.6	78.2	0	0.1
	LF6	984	0.1	0	0.1	2	0.3	0.6	2	21.2	78.5	0	0
	LF7	984	0.1	0	0	0	0.3	1.3	16	21.5	78.5	0	0.2
	LF8	985	0.1	0	0	0	0.3	1.2	29	21.4	78.2	5	0
	LF9	984	0.1	0	0	0	0.4	1.5	18	21.6	78	7	0
	LF10	984	0.1	0.1	0.1	2	0.3	0.3	1	21.5	78.1	1	0
	LF11	984	0.1	0.1	0.1	2	0.4	2.8	45	21.3	78.2	8	0.2
	LF12	985	0.1	0.1	0.1	2	0.5	0.5	0	21.7	77.8	1	1.8
	LF13	985	0.1	0.1	0.1	2	0.8	0.8	12	21.5	77.8	2	0
	LF14	984	0.1	0	0.1	2	0.7	0.7	2	20.8	78.5	1	0
	LF15	985	0.1	0.1	0.2	4	0.2	1.3	51	21.6	78.1	13	2.8
	LF16	985	0.1	0.1	0.1	2	0.1	0.1	0	22.6	77.7	0	0

Table A13.68B. Results of Landfill Gas Probe Survey at Temporary Monitoring Points (VP1 - VP9) Adjacent to Foul Sewer Rising Main at Skerries WWTP, Barnegeernagh Cove, Skerries, County Dublin on the 28th of November 2018

MONITORING DATE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	FLOW (l/hr)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
28/11/2018	VP1	983		0	0	0	0.1	0.2	1	21	78.9	1	
	VP2	983		0	0	0	0.1	0.1	1	20.9	79	0	
	VP3	983		0	0	0	0.1	0.1	1	20.9	79	0	
	VP4	983		0	0	0	0.1	0.1	0	21	78.9	0	
	VP5	983		0	0	0	0.2	0.2	5	20.7	79.1	0	
	VP6	983		0	0	0	0.1	0.2	1	21	78.9	0	
	VP7	983		0	0	0	0.1	0.4	1	21.1	78.8	0	
	VP8	983		0	0	0	0.1	0.6	1	21.2	78.7	1	
	VP9	983		0	0	0	0.1	0.3	1	21.2	78.7	1	

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**INDOOR LANDFILL GAS MONITORING SURVEY
OF RESIDENCES NOS. 25-28
DURING CONSTRUCTION (JUNE 2017)
(TABLES A13.69A & A13.69B)**

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Table A13.69A Results of Indoor Landfill Gas and Volatile Organic Compound Survey During Internal Fit-out Phase at Residences No. 25-28, Barnageeragh Cove, Skerries, Co. Dublin on the 29th May, 2017

MONITORING DATE	RESIDENCE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
29/05/2017	RESIDENCE NO. 25	BMP1	984	0	0	0	0.2	0.7	1	21.7	77.6	0	1.1	3.5
		BMP2	985	0	0	0	0.1	0.2	0	21.7	77.8	0	0.9	2
		BMP3	984	0	0.1	2	0.1	0.3	2	21.5	78.4	0	0	1.5
		BMP4	984	0	0	0	0.1	0.4	1	21.6	78.3	1	1.6	4.2
		BMP5	984	0	0	0	0.1	0.2	1	21.5	78.3	0	0.8	1.5
		RADON	984	0	0	0	0.1	0.5	2	21.3	78.6	0	0.1	0.5
	RESIDENCE NO. 26	BMP1	984	0	0	0	0.1	0.3	3	21.4	77.7	0	0.5	0.4
		BMP2	985	0	0	0	0.2	0.2	1	21.6	77.8	0	2.1	3
		BMP3	984	0	0.1	2	0.3	0.8	3	21.5	78.3	0	1	3.5
		BMP4	984	0	0	0	0.1	0.2	1	21.3	78.2	1	1.6	2.7
		BMP5	984	0	0	0	0.1	0.3	2	21.5	78.3	0	0.5	1.8
		RADON	984	0	0	0	0.1	0.5	1	21.4	78.6	0	0.1	1.7
	RESIDENCE NO. 27	BMP1	984	0	0	0	0.1	0.7	3	21.7	77.7	0	1.2	3.4
		BMP2	985	0	0	0	0.1	0.1	0	21.8	77.8	0	1.4	3.2
		BMP3	984	0	0	0	0.2	0.2	1	21.5	78.3	0	1	1.6
		BMP4	984	0	0	0	0.1	0.1	0	21.6	78.4	1	1.6	4.1
		BMP5	984	0	0	0	0.1	0.1	2	21.4	78.3	0	1.2	4.5
		RADON	984	0	0	0	0.1	0.3	1	21.3	78.6	0	0.2	2.3
	RESIDENCE NO. 28	BMP1	984	0	0.1	2	0.1	0.3	5	21.8	77.7	0	2.1	4
		BMP2	985	0	0	0	0.1	0.2	0	21.7	77.8	0	2.1	3
		BMP3	984	0	0	0	0.2	0.3	1	21.5	78.3	1	1.6	1.7
		BMP4	984	0	0	0	0.1	0.2	0	21.6	78.5	0	0.35	0.8
		BMP5	984	0	0	0	0.1	0.1	1	21.3	78.4	0	2.5	6.5
		RADON	984	0	0	0	0.1	0.1	2	21.5	78.7	0	0.3	5.1

Table A13.69B Results of Indoor Landfill Gas and Volatile Organic Compound Survey During Internal Fit-out Phase at Residences No. 25-28, Barnageeragh Cove, Skerries, Co. Dublin on the 5th June, 2017

MONITORING DATE	RESIDENCE	MONITORING POINT	BAROMETRIC PRESSURE (mb)	CH4 (%)			CO2 (%)		CO (ppm)	O2 (%)	Balance/Nitrogen (%)	H2S (ppm)	VOC (ppm)	
				STEADY (60 SECONDS)	PEAK READING	LEL	STEADY (60 SECONDS)	PEAK READING	PEAK READING	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	STEADY (60 SECONDS)	PEAK READING
05/06/2017	RESIDENCE NO. 25	BMP1	994	0	0	0	0.2	0.5	1	21.8	77.6	0	1.2	3.3
		BMP2	994	0	0	0	0.1	0.1	0	21.7	77.8	0	1.1	1.8
		BMP3	994	0	0	0	0.1	0.2	1	21.6	78.4	0	0.5	1.4
		BMP4	994	0	0	0	0.1	0.4	1	21.7	78.3	1	1.3	3.7
		BMP5	994	0	0	0	0.1	0.3	1	21.6	78.3	0	0.9	0.9
		RADON	994	0	0	0	0.1	0.3	2	21.4	78.6	0	0.3	0.6
	RESIDENCE NO. 26	BMP1	994	0	0	0	0.1	0.4	2	21.5	77.7	0	0.4	0.5
		BMP2	994	0	0	0	0.1	0.1	1	21.7	77.8	0	1.9	3.1
		BMP3	994	0	0	0	0.1	0.7	3	21.4	78.3	0	1.1	3.2
		BMP4	994	0	0	0	0.1	0.3	1	21.4	78.2	1	1.2	2.5
		BMP5	994	0	0	0	0.1	0.2	1	21.4	78.3	0	0.6	1.9
		RADON	994	0	0	0	0.1	0.4	1	21.5	78.6	0	0.2	1.4
	RESIDENCE NO. 27	BMP1	994	0	0	0	0.1	0.6	2	21.6	77.7	0	1.1	3.2
		BMP2	994	0	0	0	0.1	0.2	0	21.7	77.8	0	1.2	2.7
		BMP3	994	0	0	0	0.1	0.2	1	21.6	78.3	0	0.9	1.3
		BMP4	994	0	0	0	0.1	0.1	1	21.7	78.4	1	1.7	3.8
		BMP5	994	0	0	0	0.1	0.1	2	21.5	78.3	0	0.3	2.1
		RADON	994	0	0	0	0.1	0.1	0	21.5	78.6	0	0.9	2.3
	RESIDENCE NO. 28	BMP1	994	0	0	0	0.1	0.2	3	21.7	77.7	0	2	3.4
		BMP2	994	0	0	0	0.1	0.1	0	21.6	77.8	0	1.9	2.9
		BMP3	994	0	0	0	0.1	0.2	1	21.6	78.3	1	1.5	1.6
		BMP4	994	0	0	0	0.1	0.3	0	21.5	78.5	0	0.3	0.9
		BMP5	994	0	0	0	0.1	0.2	1	21.4	78.4	0	2.1	5.7
		RADON	994	0	0	0	0.1	0.1	1	21.6	78.7	0	0.2	4.9