Second S		СН	CO.	0-	TVOC	H ₂ S	CO	Borehole Pressure	Atmospheric Pressure	Differential Pressure	Temperature	
Second	Date and Time 21/02/2014 12:38	% v/v		O₂ % v/v 17.9	ppmv	ppmv	ppmv	millibars	millibars	millibars	°C	Comments / Events 2.45
March Marc	21/02/2014 13:38	0		18.9	0	0	0	980	980	0	3.6	2.46
	21/02/2014 15:38	0	0	18.4		0	0	980	980	0	3.5	2.46 2.47
	21/02/2014 17:38 21/02/2014 18:38	0	0	18.7 18	0	0	0	980 980	980 980	0	3.4	2.46 2.46
	21/02/2014 19:38 21/02/2014 20:38							980			3.4	2.46
	21/02/2014 22:38	0	0	18.3		0	0	980	980	0	3.4	2.45
March Marc	22/02/2014 00:38	0	0	18.4	0	0	0	981	980	0	3.4	2.45
	22/02/2014 02:38	0	0	17.7	0	0	0	981	981		3.4	2.45
2000 2000	22/02/2014 04:38	0	0	17.6	0	0	0	982	982	0	3.4	2.46
2000 1000 0 0 0 0 0 0 0	22/02/2014 06:38	0	0	17.9	0	0	0	984	984		3.3	2.45
March Marc	22/02/2014 08:38	0	0	17.7		0	0	986	986		3.3	2.45
March Marc	22/02/2014 10:38	0	0	17.9		0	0	987	987	0	3.3	2.45
March Marc	22/02/2014 12:38	0	0	17.1		0	0	988	988	0	3.3	2.45
Mathematical Math	22/02/2014 14:38	0	0	16.9	0	0	0	988	987	1 1	3.2	2.44
	22/02/2014 16:38	0	0	16.9	0	0	0	988	987	1 1	3.2	2.46 2.47
Decompt Deco	22/02/2014 18:38	0	0	17	0	0	0	988	987	1 1	3.2	2 44
Decompton 0	22/02/2014 21:38	0		17.6				987	987 987		3.3	2.45 2.45
Decompton Deco	22/02/2014 23:38	0	0	17 17.9		0	0	987 987	987 986	0	3.3 3.3	2.44
MacContent 1	23/02/2014 01:38	0	0	17 17.9	0	0	0	986	986 985	0	3.3	2.4
March Marc	23/02/2014 02:38 23/02/2014 03:38	0	0	17.5	0	0	0	985	984	0		2.44
Description	23/02/2014 05:38	0	0	18.2	0	0	0	985	984	1	3.4	2.45
Description	23/02/2014 07:38	0	0	18.1	0	0	0	984	984	0	3.4	2.44
20000014123	23/02/2014 09:38	0	0	16.9		0	0	984	983	1	3.4	2.45
DECOMPANY 1985 19	23/02/2014 11:38	0	0	18		0	0	984	983	1	3.4	2.44
2000011-103	23/02/2014 13:38	0	0	18.3		0	0	983	983		3.5	2.46
Description 1	23/02/2014 15:38	0	0	17.6	0	0	0	983	983	0	3.5	2.45
20000014 100 10	23/02/2014 17:38	0	0	17.6	0	0	0	984	983	1	3.6	2.45
20000014130 0 0 0 191 0 0 0 0 96 96 96 96 96 0 32 244 2000014130 0 0 0 0 191 0 0 0 0 0 96 96 96 96 96 96 96 96 96 96 96 96 96	23/02/2014 19:38	0	0	17.9	0	0	0	985	985		3.6	2.45
34002916 0.0	23/02/2014 21:38 23/02/2014 22:38	0		18.1				985	984	0	3.7	2.44 2.44
246000010038	24/02/2014 00:38	0	0	18.3 17.9	0	0			984		3.8	2.44 2.43
34602014 (15.8)	24/02/2014 02:38	0	0	18.6	0	0	0	983	982	0	3.8	2.45
24000000000000000000000000000000000000	24/02/2014 04:38	0	0	18.6	0	0	0	981	981	0	3.8	2.44
246020141238 0 0 0 19 0 0 0 0 0 933 962 1 1 339 2.44 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24/02/2014 06:38	0	0	18.3	0	0	0	980	980	0	3.9	2.43
240022911138	24/02/2014 08:38	0	0	18.6	0	0	0	983	982	1	3.9	2.43
240020141938 0 0 0 151 0 0 0 0 982 982 982 0 139 2.46 24020141938 0 0 0 158 0 0 0 0 982 981 1 1 39 2.46 24020141938 0 0 0 158 0 0 0 0 982 981 1 1 39 3 2.47 24020141938 0 0 0 158 0 0 0 0 982 981 1 1 39 3 2.47 24020141938 0 0 0 158 0 0 0 982 981 1 1 39 9 2.47 24020141938 0 0 0 158 0 0 0 982 981 1 1 39 9 2.47 24020141938 0 0 0 158 0 0 0 982 981 1 1 39 9 2.47 24020141938 0 0 0 158 0 0 0 980 980 980 1 1 3 3 4 2.44 24020141938 0 0 0 158 0 0 0 0 981 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 987 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 987 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 987 980 980 980 0 0 4 1 2.44 24020141938 0 0 0 15 0 0 0 0 0 987 980 980 980 0 0 0 1 1 2.44 24020141938 0 0 0 15 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 15 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 1 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 987 987 987 0 0 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 987 987 987 0 0 1 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 0 987 987 987 0 0 1 1 1 1 1 1 1 2.44 24020141938 0 0 0 0 15 0 0 0 0 0 0	24/02/2014 10:38	0	0	18.6	0		0	983	983			2.44
24002014158 0 0 0 197 0 0 0 0 0 883 882 1 1 33 245 24022014158 0 0 0 187 0 0 0 0 0 883 882 81 1 33 1 245 24022014178 0 0 0 188 0 0 0 0 0 881 890 0 1 1 39 2 247 24022014178 0 0 0 188 0 0 0 0 188 0 0 0 0 0 881 890 0 1 1 39 9 2.44 24022014178 0 0 0 188 0 0 0 0 188 0 0 0 0 0 881 890 0 0 1 4 2 244 24022014178 0 0 0 0 188 0 0 0 0 188 0 0 0 0 0 880 0 0 0	24/02/2014 11:38	0	0	17.9			0	983	983	0	3.9	2.44
24002014 13-38 0 0 18-8 0 0 0 18-9 0 0 18-9 0 0 0 18-9 0 0 0 18-9 0 0 0 18-9 0 0 0 18-9 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 18-9 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0 0 0 0 18-9 0 0	24/02/2014 14:38	0	0	18	0	0	0	983	982	1	3.9	2.45
24002041438 0 0 0 189 0 0 0 0 980 980 0 4 2-40 24002041438 0 0 0 189 0 0 0 0 980 980 0 4 4 2-40 24002041438 0 0 0 189 0 0 0 0 0 0 980 980 0 0 4 4 2-40 24002041438 0 0 0 189 0 0 0 0 0 0 0 978 978 0 0 4.1 2-44 24002041438 0 0 0 189 0 0 0 0 0 0 0 978 978 0 0 4.1 2-44 24002041438 0 0 0 0 189 0 0 0 0 0 0 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 0 978 978 1 1 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 0 978 978 1 1 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 1 1 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 1 1 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 189 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 183 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 183 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 183 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 183 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 250020414038 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 184 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 184 0 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 184 0 0 0 0 0 0 978 978 978 0 0 4.1 2-44 25002041438 0 0 0 0 18	24/02/2014 16:38	0	0	18.8	0	0	0	982	981	1	3.9	2.47
24402014 (23-28 0 0 0 19-1 0 0 0 0 979 979 0 4 2.44 2.44 2.44 2.44 2.44 2.44 2.44	24/02/2014 18:38 24/02/2014 19:38	0	0	18.9 18.9	0	0	0	980 980	980 980		4	2.43 2.43
24022014 2338 0 0 0 192 0 0 0 0 0 7978 978 0 0 4.1 2.44 2462022014 2338 0 0 0 189 0 0 0 0 0 9778 978 0 0 4.1 2.44 25022014 2338 0 0 0 189 0 0 0 0 0 9775 978 0 0 4.1 2.44 25022014 2338 0 0 0 189 0 0 0 0 0 9775 978 0 0 4.1 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.1 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.2 2 2.44 25022014 2338 0 0 0 189 0 0 0 0 9775 978 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9775 9775 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9777 9 9778 0 0 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9777 9 9778 1 1 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9777 9 978 1 1 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9777 9 978 1 1 4.1 1 2.40 25022014 2338 0 0 0 189 0 0 0 0 9 982 982 982 0 4.2 2 2.40 25022014 2338 0 0 0 189 0 0 0 0 9 982 982 982 0 4.2 2 2.40 25022014 2338 0 0 0 189 0 0 0 0 9 982 982 982 0 4.2 2 2.40 25022014 2338 0 0 0 189 0 0 0 0 0 982 982 982 0 0 4.1 1 2.42 25022014 2338 0 0 0 189 0 0 0 0 0 982 982 982 0 0 4.1 1 2.44 25022014 2338 0 0 0 189 0 0 0 0 0 982 982 982 0 0 4.1 1 2.44 25022014 2338 0 0 0 189 0 0 0 0 0 982 982 982 0 0 4.1 1 2.44 25022014 2338 0 0 0 189 0 0 0 0 0 982 982 982 0 0 0 0 0 0 0 982 982 982 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24/02/2014 20:38 24/02/2014 21:38			19.1	0	0		978	978		4.1	2.44
25002014 03-88 0 0 0 18-9 0 0 0 0 0 0 975 975 0 1 4.1 2.46 25002014 03-88 0 0 0 18-9 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 25002014 03-88 0 0 0 18-2 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 2.5002014 03-88 0 0 0 18-2 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 2.5002014 03-88 0 0 0 18-2 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 2.46 2.5002014 03-88 0 0 0 18-2 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 2.5002014 03-88 0 0 0 18-2 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 2.46 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 975 0 0 4.1 2.46 2.46 2.46 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 975 0 0 4.1 2.40 2.44 2.44 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 975 0 0 4.1 2.40 2.40 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 975 0 0 4.1 2.40 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 9775 0 0 4.1 2.40 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 9775 0 0 4.1 2.40 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 9775 0 0 4.1 2.40 2.5002014 03-88 0 0 0 18-3 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-88 0 0 0 18-3 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 0 9775 9775 9775 0 0 4.1 2.40 2.5002014 12-8 0 0 0 0 18-1 0 0 0 0 0 9776 9776 9776 0 0 4.1 2.40 2.40 2.5002014 12-8 0 0 0 0 18-1 0 0 0 0 0 9777 9777 9777 0 0 4.1 1 2.40 2.40 2.5002014 12-8 0 0 0 0 18-1 0 0 0 0 0 9777 9777 9777 0 0 4.1 1 2.40 2.40 2.5002014 12-8 0 0 0 0 18-1 0 0 0 0 0 9777 9777 977 0 0 4.1 1 2.40 2.40 2.5002014 12-8 0 0 0 0 18-3 0 0 0 0 0 9777 9777 977 0 0 4.1 1 2.40 2.40 2.40 2.5002014 12-8 0 0 0 0 18-3 0 0 0 0 0 9777 977 977 977 0 0 4.1 1 2.40 2.40 2.40 2.5002014 12-8 0 0 0 0 18-3 0 0 0 0 0 9777 977 977 977 1 0 4.1 1 2.40 2.40 2.40 2.5002014 12-8 0 0 0 0 18-3 0 0 0 0 0 9777 977 977 977 1 0 4.1 1 1 2.40 2.40 2.40 2.40 2.40 2.40 2.40 2.40	24/02/2014 23:38	0	0	19.2			0	976	976	0	4.1	2.43
\$5020014 (0.38)	25/02/2014 01:38	0	0	18.8		0	0	976	975	1	4.1	2.44
25022014 0538 0 0 0 19.2 0 0 0 0 975 975 0 4.2 2.44 25022014 0638 0 0 0 18.9 0 0 0 0 0 9775 975 0 4.1 1 2.44 25022014 08.9 0 0 0 18.9 0 0 0 0 0 9775 975 0 0 4.1 1 2.45 25022014 08.9 0 0 0 19.9 0 0 0 0 9775 975 0 0 4.1 1 2.45 25022014 10.38 0 0 0 19.9 0 0 0 0 9775 975 0 0 4.1 1 2.45 25022014 10.38 0 0 0 19.9 0 0 0 0 9775 975 0 0 4.1 1 2.45 25022014 10.38 0 0 0 19.1 0 0 0 0 9775 9775 0 0 4.1 1 2.45 25022014 10.38 0 0 0 19.1 0 0 0 0 9775 975 1 1 4.1 1 2.45 25022014 10.38 0 0 0 19.1 0 0 0 0 9776 9775 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.1 0 0 0 0 9776 9776 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.4 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.4 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.4 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.4 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.4 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.4 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9777 978 978 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9777 977 977 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9777 977 977 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9777 977 977 0 0 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9779 978 1 1 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9779 978 1 1 4.1 1 2.45 25022014 10.38 0 0 0 18.3 0 0 0 0 9779 978 1 1 4.1 1 2.45 25022014 10.38 0 0 0 19.0 0 0 0 9891 9891 0 0 4.1 1 2.44 25022014 10.38 0 0 0 19.0 0 0 0 9891 9891 0 0 4.1 1 2.44 25022014 10.38 0 0 0 19.1 0 0 0 0 9891 9891 0 0 4.1 1 2.44 25022014 10.38 0 0 0 19.1 0 0 0 0 9891 9891 0 0 0 0 0 0 9891 9891	25/02/2014 03:38	0	0	18.7	0	0	0	975	975	0	4.1	2.43
\$5002014 0738 0 0 0 18.5 0 0 0 0 975 975 975 0 4.1 2.43 \$5002014 038 0 0 0 18.3 0 0 0 0 0 9775 975 975 0 4.1 2.43 \$5002014 038 0 0 0 18.3 0 0 0 0 0 9775 975 975 0 0 4.1 2.43 \$5002014 1038 0 0 0 19 0 0 0 0 9775 976 975 1 1 4.1 2.43 \$5002014 1038 0 0 0 19 0 0 0 0 9776 9776 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 18.1 0 0 0 0 0 9776 9776 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 18.1 0 0 0 0 0 9776 9776 9776 1 1 4.1 2.44 \$5002014 1238 0 0 0 18.4 0 0 0 0 0 9776 9776 9776 1 1 4.1 2.44 \$5002014 1238 0 0 0 18.4 0 0 0 0 0 9777 9776 9776 1 1 4.1 2.44 \$5002014 1238 0 0 0 18.4 0 0 0 0 0 9777 9776 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 18.4 0 0 0 0 0 9777 9776 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 0 18.4 0 0 0 0 0 9777 977 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 0 18.3 0 0 0 0 0 9777 977 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 18.3 0 0 0 0 0 9777 977 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 18.3 0 0 0 0 0 9777 977 9776 1 1 4.1 2.43 \$5002014 1238 0 0 0 18.3 0 0 0 0 0 9777 977 9778 9778 1 1 4.1 2.43 \$5002014 1238 0 0 0 19 0 0 0 0 9777 977 9778 978 1 1 4.1 2.43 \$5002014 1238 0 0 0 19 1 0 0 0 0 9777 977 9778 978 1 1 4.1 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 9777 977 978 978 1 1 4.1 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 9811 980 0 1 4.1 2.42 \$5002014 1238 0 0 0 19 1 0 0 0 0 9811 980 0 1 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 9811 980 0 1 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 982 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 982 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 982 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 982 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 988 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 988 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 0 988 983 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 0 988 988 983 0 0 4.2 2.44 \$5002014 1238 0 0 0 19 1 0 0 0 0 0 988 988 989 0 0 0 0 0 0 0 0 0	25/02/2014 05:38	0	0	19.2	0	0	0	975	975	0	4.2	2.43
25022014 1938 0 0 0 19 0 0 0 0 976 975 975 0 4.1 2.43 25022014 1938 0 0 0 19 0 0 0 0 9776 976 976 1 1 4.1 2.43 25022014 1938 0 0 184 0 0 0 0 9776 976 976 1 1 4.1 2.44 25022014 1938 0 0 0 189 0 0 0 0 9776 976 976 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9776 976 976 0 0 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9777 977 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9777 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9777 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9777 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 0 9777 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9777 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9777 978 978 1 1 4.1 2.44 25022014 1938 0 0 0 18.3 0 0 0 0 9878 988 1 1 4.1 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9878 988 1 1 4.1 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9882 9880 1 1 4.2 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9882 9880 1 1 4.2 2.44 25022014 2238 0 0 0 18.1 0 0 0 0 9882 9883 0 0 4.2 2.44 25022014 2238 0 0 0 18.1 0 0 0 0 9882 9885 983 0 0 4.2 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9882 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9882 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9882 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9882 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9885 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9885 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.1 0 0 0 0 9885 9886 0 0 4.3 2.44 25022014 1938 0 0 0 18.2 0 0 0 0 9891 9891 9891 0 4.1 2.44 25022014 1938 0 0 0 18.2 0 0 0 0 9891 9891 0 4.1 2.44 25022014 1938 0 0 0 18.2 0 0 0 0 9891 9891 1 0 4.1 2.44 25022014 1938 0 0 0 18.2 0 0 0 0 9891 9891 9891 1 0 4.1 1 2.44 25022014 1938 0 0 0 18.2 0 0 0 0 9891 9891 9891 1 0 4.1 1 2.44 25022014 1938 0 0 0 18.2 0 0 0 0 9891 9891 9891 1 0 4.1 1 2.44 25022014 1938 0 0 0 18.8 0 0 0 0 0 9891 9891 9891 1 0 4.1 1 2.44 25022014 1938 0 0 0 18.8 0 0 0 0 0 9891 9891 9891 1 0 4.1 1 2.44 25022014 1938 0 0 0 18.8 0 0 0 0 0 9892 9899 9891 1 1 4.4 1 2.44 25022014 1938 0 0 0 18.8 0 0 0 0 0 9893 9893 9893 1 1 1 1 1	25/02/2014 07:38	0	0	18.5	0	0	0	975	975		4.1	2.43
2.55022014 138 0 0 0 19 0 0 0 978 978 978 1 1 4.1 2.42 2.55022014 138 0 0 0 18.3 0 0 0 0 978 978 978 0 0 4.1 2.42 2.55022014 138 0 0 0 18.3 0 0 0 0 978 978 978 1 1 4.1 2.42 2.55022014 138 0 0 0 18.3 0 0 0 0 0 977 978 978 1 1 4.1 2.42 2.55022014 138 0 0 0 18.3 0 0 0 0 0 977 978 978 1 1 4.1 2.43 2.55022014 138 0 0 0 18.3 0 0 0 0 0 977 978 978 1 1 4.1 2.43 2.55022014 138 0 0 0 18.3 0 0 0 0 0 977 978 978 0 1 4.1 2.43 2.55022014 138 0 0 0 18.3 0 0 0 0 0 977 979 978 0 1 4.1 2.43 2.55022014 138 0 0 0 19 0 0 0 0 977 979 979 0 0 4.1 2.43 2.55022014 138 0 0 0 19 0 0 0 0 977 979 979 0 0 4.1 2.43 2.55022014 138 0 0 0 19 1 0 0 0 0 981 980 1 1 4.2 2.42 2.55022014 138 0 0 0 19 1 0 0 0 0 982 989 980 1 1 4.2 2.44 2.55022014 238 0 0 0 19 1 0 0 0 0 982 989 983 0 0 4.2 2.44 2.55022014 238 0 0 0 19 1 0 0 0 0 983 983 983 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.2 2.2 2.40 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.3 3.2 2.41 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.3 3.2 2.41 2.55022014 238 0 0 0 19 1 0 0 0 0 988 988 988 0 0 4.3 3.2 2.41 2.55022014 238 0 0 0 19 2 0 0 0 0 988 988 988 0 0 4.3 3.2 2.41 2.55022014 238 0 0 0 19 2 0 0 0 0 988 988 988 0 1 4.2 2.2 2.41 2.55022014 238 0 0 0 19 2 0 0 0 0 988 988 988 0 1 4.2 2.2 2.41 2.55022014 238 0 0 0 19 1 0 0 0 0 0 988 988 988 0 1 4.2 2.2 2.41 2.55022014 238 0 0 0 19 1 0 0 0 0 0 988 988 988 0 1 1 4.2 2.2 2.41 2.55022014 238 0 0 0 19 1 0 0 0 0 0 988 988 988 0 1 1 4.2 2.2 2.41 2.55022014 238 0 0 0 0 19 2 0 0 0 0 988 988 988 0 1 1 4.2 2.42 2.55022014 238 0 0 0 0 19 2 0 0 0 0 0 988 988 988 0 1 1 4.2 2.42 2.55022014 238 0 0 0 0 19 2 0 0 0 0 0 988 988 988 0 1 1 4.2 2.44 2.5502201	25/02/2014 09:38	0	0	19	0	0	0	975	975	0	4.1	2.43
2.5022014 1438 0 0 0 184 0 0 0 0 977 977 978 1 1 4.1 2.49 2.5022014 1738 0 0 0 183 0 0 0 0 0 977 979 978 1 1 4.1 2.40 2.5022014 1738 0 0 0 183 0 0 0 0 977 979 978 1 1 4.1 2.40 2.5022014 1738 0 0 0 183 0 0 0 0 977 979 978 1 1 4.1 2.40 2.5022014 1738 0 0 0 183 0 0 0 0 977 979 978 1 1 4.1 2.40 2.5022014 1738 0 0 0 199 0 0 0 0 977 979 978 1 1 4.1 2.40 2.5022014 1738 0 0 0 199 0 0 0 0 977 979 979 1 0 4.1 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 977 979 979 1 0 4.1 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 979 979 979 0 0 4.1 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 982 982 982 0 1 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 982 982 982 0 1 4.2 2.40 2.5022014 2238 0 0 0 191 1 0 0 0 0 982 983 983 0 0 4.2 2.40 2.5022014 2238 0 0 0 191 1 0 0 0 0 983 983 983 0 0 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 983 983 983 0 0 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 983 983 983 0 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 983 983 983 0 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 983 983 983 0 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 983 983 983 0 4.2 2.40 2.5022014 1738 0 0 0 191 0 0 0 0 983 985 986 0 4.3 3 2.44 2.5022014 1738 0 0 0 191 0 0 0 0 986 986 0 4.3 3 2.44 2.5022014 1738 0 0 0 192 0 0 0 0 986 986 0 4.3 3 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 986 0 4.3 3 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 986 0 4.3 3 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 4.2 2.41 2.5022014 1738 0 0 0 192 0 0 0 0 986 989 989 1 0 0 0 0 0 193 2.41 2.5022014 1738 0 0 0 193 0 0 0 0 0 986 989 989 1 0 0 0 0 0 193 2.41 2.5022014 1738 0	25/02/2014 11:38 25/02/2014 12:38	0	0	19	0	0	0	976	975	1 1	4.1	2.42
2.5002014 1538 0 0 0 18.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25/02/2014 13:38 25/02/2014 14:38	0		18.9 18.4		0	0	976	976		4.1	2.42
25002014 1736 0 0 1 18.3 0 0 0 979 978 1 1 4.1 2.45 25002014 1736 0 0 191 0 0 0 0 979 978 1 1 4.1 2.45 25002014 238 0 0 0 191 0 0 0 0 981 981 981 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 981 981 981 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.45 25002014 238 0 0 0 191 0 0 0 0 982 982 982 0 4.2 2.44 25002014 238 0 0 0 191 0 0 0 0 982 983 983 0 0 4.2 2.44 25002014 238 0 0 0 191 0 0 0 0 986 984 984 984 0 0 4.3 2.42 25002014 038 0 0 0 191 0 0 0 0 986 985 986 0 4.3 2.42 25002014 038 0 0 0 191 0 0 0 0 986 986 986 0 4.3 2.42 25002014 038 0 0 0 192 0 0 0 0 987 986 0 4.3 2.44 25002014 038 0 0 0 192 0 0 0 0 987 986 0 4.3 2.44 25002014 038 0 0 0 192 0 0 0 0 987 987 987 1 4.2 2.41 25002014 038 0 0 0 192 0 0 0 0 987 987 987 1 4.2 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 990 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.41 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.44 25002014 038 0 0 0 192 0 0 0 0 989 989 980 0 4.4 1 2.44 25002014 138 0 0 0 192 0 0 0 0 989 989 980 0 1 4.4 1 2.44 25002014 138 0 0 0 192 0 0 0 0 989 989 980 0 1 4.4 1 2.44 25002014 138 0 0 0 192 0 0 0 0 989 989 980 0 1 4.4 1 2.44 25002014 138 0 0 0 192 0 0 0 0 989 989 980 0 1 4.4 1 2.44 25002014 138 0 0 0 192 0 0 0 0 989 989 980 0 1 4.4 1 2.44 25002014 138 0 0 0 188 0 0 0 192 0 0 0 0 989 989 980 0 1 4.4 1 2.44 25002014 138 0 0 0 188 0 0 0 188 0 0 0 0 989 989 980 1 1 3.9 2.44 25002014 138 0 0 0 188 0 0 0 0 188 0 0 0 0 0 989 989 980 1 1 3.9 2.44 25002014 138 0 0 0 188 0 0	25/02/2014 15:38 25/02/2014 16:38	0	0	18.3	0	0	0	977 977	976 977	1	4.1	2.43 2.43
25002014 2138 0 0 0 191 0 0 0 0 992 992 992 0 42 2.43 25002014 2138 0 0 0 191 0 0 0 0 993 993 993 0 42 2.44 25002014 2138 0 0 0 191 0 0 0 0 0 993 993 993 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 993 993 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 993 999 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 997 997 0 4.2 2.41 25002014 2138 0 0 0 191 0 0 0 0 997 999 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 999 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 990 990 990 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0 191 0 0 0 0 0 0 990 990 990 1 1 4.1 2.41 25002014 2138 0 0 0	25/02/2014 17:38	0	0	18.3			0	979 979	978 979	0	4.1	2.43 2.42
25022014 2238 0 0 0 191 0 0 0 0 983 983 0 42 2 2.43 25022014 2238 0 0 0 191 0 0 0 0 983 983 983 0 42 25022014 2338 0 0 191 0 0 0 0 984 983 983 0 43 2.42 25022014 0138 0 0 191 0 0 0 0 0 985 985 985 0 43 3 2.42 25022014 0138 0 0 0 191 0 0 0 0 985 985 985 0 43 3 2.42 25022014 0138 0 0 0 192 0 0 0 0 985 985 985 0 43 3 2.42 25022014 0138 0 0 0 192 0 0 0 0 985 985 985 0 43 3 2.42 25022014 0138 0 0 0 192 0 0 0 0 986 986 0 0 43 3 2.44 25022014 0138 0 0 0 192 0 0 0 0 986 986 0 0 43 3 2.44 25022014 0138 0 0 0 192 0 0 0 0 987 987 987 1 0 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 987 987 987 1 0 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 987 987 987 1 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 988 987 1 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 988 987 987 1 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 988 987 989 0 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 988 989 989 0 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 988 989 989 0 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 989 989 989 0 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 989 989 989 0 4 42 2.44 25022014 0138 0 0 0 192 0 0 0 0 999 1 999 0 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 0 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 192 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 193 0 0 0 0 999 1 999 1 0 4 4 1 2.44 25022014 1138 0 0 0 193 0 0 0 0 999 1 999 1 0 0 0 0 1 1 2 2 0 0 0 0 0 999 1 999 1 0 0 0 0 0 1 1 2 2 0 0 0 0 0 999 1 999 1 0 0 0 0 0 0 1 1 2 2 0 0 0 0 0 1 1 2 2 0 0 0 0	25/02/2014 19:38 25/02/2014 20:38	0	0	19	0		0	981	981	0	4.2	2.42
28002014 0038 0 0 0 19 0 0 0 0 984 984 984 0 4.3 2.40 28002014 0038 0 0 0 19.1 0 0 0 0 0 985 985 985 0 0 4.3 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 985 985 986 0 1.4 3 2.41 28002014 0038 0 0 0 19.1 0 0 0 0 0 987 986 1 1 4.2 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 987 986 1 1 4.2 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 987 986 1 1 4.2 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 987 986 1 1 4.2 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 987 986 1 1 4.1 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 989 989 1 1 4.1 2.41 28002014 0038 0 0 0 19.2 0 0 0 0 990 989 1 1 4.1 2.41 28002014 1038 0 0 0 19.2 0 0 0 0 990 989 1 1 4.1 2.41 28002014 1038 0 0 0 19.2 0 0 0 0 990 989 1 1 4.1 2.41 28002014 1038 0 0 0 19.2 0 0 0 0 990 989 1 1 4.1 2.41 28002014 1038 0 0 0 19.2 0 0 0 0 990 989 1 1 4.1 2.41 28002014 1038 0 0 0 19.2 0 0 0 0 990 980 1 1 4.1 2.41 28002014 1038 0 0 0 19.2 0 0 0 0 990 980 1 1 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.41 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.44 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.44 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 1 0 4.1 2.44 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 980 1 0 4.1 2.44 28002014 1038 0 0 0 19.3 0 0 0 0 990 980 980 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	25/02/2014 22:38	0	0	19.1	0	0	0	983	983	0	4.2	2.43
28022014 0238 0 0 0 191 0 0 0 0 985 985 0 4.3 2.44 28022014 0238 0 0 0 192 0 0 0 0 987 988 0 0 4.3 2.44 28022014 0238 0 0 0 192 0 0 0 0 987 987 987 0 4.2 2.41 28022014 0238 0 0 0 193 0 0 0 989 988 987 0 1 4.2 2.41 28022014 0238 0 0 0 193 0 0 0 989 988 987 0 1 4.2 2.41 28022014 0238 0 0 0 194 0 0 0 0 989 988 987 0 1 4.2 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 988 987 0 1 4.2 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 988 987 0 1 4.2 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 989 0 1 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 989 0 1 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 989 0 0 1 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 4.1 2.41 28022014 0238 0 0 0 195 0 0 0 0 989 0 990 0 0 0 0 0 0 0 0 0 0 0	26/02/2014 00:38	0	0	19		0	0	984	984	0	4.3	2.43
280020140438 0 0 0 191 0 0 0 0 997 996 1 42 2.41 280020140738 0 0 0 192 0 0 0 0 998 998 997 0 1 42 2.41 280020140738 0 0 0 192 0 0 0 0 998 998 999 1 4 41 2.41 280020140938 0 0 0 192 0 0 0 0 999 990 990 0 4 1 2 2 2.41 280020140938 0 0 0 193 0 0 0 0 990 990 990 0 0 4.11 2.41 280020140938 0 0 0 193 0 0 0 0 990 990 990 0 0 4.11 2.41 280020140938 0 0 0 193 0 0 0 0 990 990 990 0 0 4.11 2.41 280020140938 0 0 0 193 0 0 0 0 990 990 990 0 0 4.11 2.41 2800201410938 0 0 0 193 0 0 0 0 990 990 990 0 0 4.11 2.41 280020141238 0 0 0 193 0 0 0 0 991 991 991 0 0 4.1 2.41 280020141238 0 0 0 193 0 0 0 0 991 991 991 0 0 4 1 2.41 280020141238 0 0 0 193 0 0 0 0 991 991 991 0 0 4 2.42 280020141238 0 0 0 193 0 0 0 0 992 992 992 0 0 4 2.42 280020141438 0 0 0 193 0 0 0 0 992 992 992 0 0 4 2.42 280020141438 0 0 0 193 0 0 0 0 992 992 992 0 1 1 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	26/02/2014 02:38	0	0	19.1	0	0	0	985	985	0	4.3	2.42
\$8002014 1038 0 0 0 192 0 0 0 0 998 997 1 1 4.2 2.41 2.24 2.24 2.24 2.24 2.24 2	26/02/2014 04:38	0	0	19.1	0	0	0	987	986	1	4.2	2.41
\$6002014 1938 0 0 0 191 0 0 0 0 990 990 1 1 4.1 2.41 2.41 2.41 2.42 2.40 2.40 2.40 2.40 2.40 2.40 2.40	26/02/2014 06:38	0	0	19	0	0	0	988	987	1	4.2	2.41
580022014 1038	26/02/2014 08:38	0	0	19.2	0	0	0	990	989	1	4.1	2.41
28.002014 1238 0 0 0 183 0 0 0 0 999 999 0 0 4 2.44 2.44 2.45 2.45 2.45 2.45 2.45 2.	26/02/2014 10:38	0	0	19			0	991	991	0	4.1	2.41
280020141438 0 0 0 192 0 0 0 992 992 0 3.9 2.41 280020141538 0 0 181 0 0 0 0 992 992 992 1 3.9 2.41 280020141738 0 0 0 181 0 0 0 0 993 992 992 1 3.9 2.44 280020141738 0 0 0 18.8 0 0 0 0 993 993 992 1 3.9 2.44 280020141838 0 0 18.7 0 0 0 993 993 992 1 3.9 2.44 280020141838 0 0 18.7 0 0 0 993 993 992 1 3.9 2.44 280020141838 0 0 18.8 0 0 0 993 993 992 1 3.9 2.44 280020141838 0 0 18.8 0 0 0 993 993 993 0 3.9 2.44 280020141838 0 0 18.8 0 0 0 993 993 993 1 3.9 2.44 280020141838 0 0 0 18.8 0 0 0 0 993 993 993 1 3.9 2.44 280020141838 0 0 0 18.8 0 0 0 0 993 993 993 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 992 993 993 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 992 993 993 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 992 993 993 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 992 993 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 18.8 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 0 993 999 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 0 993 992 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 0 993 992 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 0 0 993 992 998 1 3.9 2.44 28002014238 0 0 0 18.8 0 0 0 0 0 0 993 992 993 993 993 993 993 993 993 993	26/02/2014 12:38 26/02/2014 13:38	0	0	19.3 19.4	0	0	0	991 992	991 992	0	4	2.41
280022014 1638 0 0 0 18.9 0 0 0 992 992 0 3.9 2.42 280022014 1938 0 0 0 18.7 0 0 0 0 993 992 1 1 3.9 2.41 280022014 1938 0 0 0 18.5 0 0 0 993 993 993 0 3.9 2.41 280022014 1938 0 0 0 18.5 0 0 0 993 993 993 0 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 993 993 993 0 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 993 993 993 0 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 993 993 993 0 3.9 2.41 280022014 2938 0 0 18.5 0 0 0 993 993 993 0 3.9 2.41 280022014 2938 0 0 18.5 0 0 0 994 994 995 991 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 994 994 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.8 0 0 0 994 994 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.8 0 0 0 994 994 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.8 0 0 0 994 999 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 0 994 999 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 0 994 999 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 0 994 999 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 0 994 999 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 0 994 999 998 1 1 3.9 2.41 280022014 2938 0 0 0 18.5 0 0 0 0 994 994 998 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	26/02/2014 15:38	0	0	19.2 19.1	0	0	0	993	992	1	3.9	2.42
280022014 19.88 0 0 0 18.7 0 0 0 993 992 1 3.9 2.4 280022014 93.88 0 0 18.8 0 0 0 0 993 993 993 0 3.9 2 1 280022014 20.88 0 0 18.8 0 0 0 0 993 993 993 1 1 3.9 2.4 280022014 20.88 0 0 18.8 0 0 0 0 993 993 993 1 1 3.9 2.4 280022014 20.88 0 0 18.8 0 0 0 0 993 993 993 1 1 3.9 2.4 280022014 20.88 0 0 18.8 0 0 0 0 993 993 993 1 1 3.9 2.4 280022014 20.88 0 0 18.8 0 0 0 993 993 993 1 1 3.9 2.4 280022014 20.88 0 0 18.8 0 0 0 993 993 998 1 1 3.9 2.4 280022014 20.88 0 0 18.8 0 0 0 993 993 998 1 1 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 993 993 998 1 1 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 993 993 998 1 1 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 993 994 998 1 1 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 994 994 994 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 994 994 994 0 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 0 994 994 994 0 0 3.9 2.4 280022014 20.88 0 0 0 18.5 0 0 0 0 0 994 994 994 0 0 3.9 2.4 280022014 20.88 0 0 0 0 18.5 0 0 0 0 0 994 994 994 0 0 3.9 2.4 280022014 20.88 0 0 0 0 0 0 0 0 994 994 994 0 0 0 0 0 994 994	26/02/2014 16:38 26/02/2014 17:38	0	0	18.9 18.8	0	0	0	992 993	992 992	1	3.9	2.42 2.42
260020142138 0 0 0 19 0 0 0 9690 990 1 1 33 2.41 27002014038 0 0 18.5 0 0 0 9891 9898 1 1 33 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9896 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9891 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9891 0 3.3 2.41 27002014038 0 0 18.5 0 0 0 9891 9891 0 3.3 2.41	26/02/2014 18:38 26/02/2014 19:38	0	0	18.7		0	0	993 993	992 993		3.9	2.41
26022014 23:38 0 0 0 18.8 0 0 0 5999 988 1 3.9 2.41 27022014 0338 0 0 18.5 0 0 0 0 9997 997 0 3.39 2.41 27022014 03:38 0 0 18.5 0 0 0 0 996 996 986 0 3.9 2.41 27022014 03:38 0 0 18.5 0 0 0 0 996 996 996 0 3.9 2.41 27022014 03:38 0 0 18.5 0 0 0 994 994 994 0 3.9 2.41 27022014 03:38 0 0 18.5 0 0 0 996 996 996 0 3.9 2.41 27022014 03:38 0 0 18.5 0 0 0 996 996 996 0 3.9 2.41 27022014 03:38 0 0 18.5 0 0 0 996 996 996 0 3.9 2.41 27022014 03:38 0 0 18.7 0 0 0 996 996 996 0 3.9 2.41 27022014 03:38 0 0 18.9 0 0 0 996 996 996 996 0 3.9 2.41 27022014 03:38 0 0 18.9 0 0 0 996 996 996 996 996 996 996 996	26/02/2014 21:38	0	0	19		0	0	992	991	1 1	3.9	2.4
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270220140338 0 0 19.1 0 0 0 983 982 1 3.9 2.41 27022014638 0 0 19.1 0 0 0 989 981 981 0 3.9 2.44 27022014688 0 0 18.1 0 0 0 981 981 981 0 3.9 2.44 27022014688 0 0 18.7 0 0 0 982 981 1 3.9 2.44 27022014088 0 0 18.6 0 0 0 982 1 1 3.9 2.44	27/02/2014 01:38	0	0	18.9		0	0	986	986	0	3.9	2.41
270/2014/6538 0 0 18.9 0 0 0 881 981 0 3.9 2.41 270/2014/6638 0 0 18.7 0 0 0 982 981 1 3.9 2.4 270/2014/7638 0 0 18.6 0 0 0 983 982 1 3.9 2.41	27/02/2014 03:38	0	0	19.1		0	0	983	982	1	3.9	2.41
27/02/2014 07:38 0 0 18.6 0 0 0 983 982 1 3.9 2.41	27/02/2014 05:38	0	0	18.9	0	0	0	981	981		3.9	2.41
	27/02/2014 07:38	0	0	18.6	0	0	0	983	982	1 0	3.9	2.41

GGS DataPack® Hednesford Hill, Cannock Chase

Appendix D

Calibration Certificates







CHECKLIST FOR GASCLAM

KIT CONTENTS

GasClam	/
Communication Cable	V
Start Cable	/
Gasclam Snorkel Assembly	1
Box Spanner	/
Allen Key x 2	V
User Manual	/
Software CD	V

Filters x 3	/
O-Ring (Bottom) x 5	V
O-Ring (Top) x 5	V
Moisture Filter x 3	1
Hose Barb (for vent)	V
Sensor Blanks x 3	/
Charger	/
Battery Pack (x2)	/

QUALITY CHECK

Software version:	5.4.33		
Firmware version:	07.11.248		

Final instrument inspection date:	C:May	15,10,13
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PD-FM-073-05

CALIBRATION CERTIFICATE



Date of Calibration: - 14th October 2013

Certificate Number: - 224580

Calibrated by: - C May

Customer: - Shawcity Limited

Description: - GasClam

Manufacturer: - Elok - Opava Type Number: - Version 7

Serial Number: - 000317/06/12

Calibration due date: - October 2014

This instrument has been factory calibrated to fully documented procedures in accordance with our ISO 9001:2008 Quality Management System.

Measurement standards are derived from volumetric and time sources which have been calibrated at a UKAS accredited laboratory. The following list indicates the serial numbers of equipment used during the calibration procedure.

BAR02	PRESS04	C298326 / A78711	C9122 / A80531	C9489 / A79151
C298926 / A72831				

¹ Gas mixtures prepared using equipment traceable to N.P.L. standards against Suppliers Certificate No

The instrument has been calibrated at a temperature of 23.0°C ± 0.25°C and a barometric pressure of 1004.0 mbar ± 2

ION Science hereby certify that on the day of calibration the instrument was working according to the manufacturer's original sales specification as checked by the calibration procedure, unless otherwise stated.

Copies of this certificate may only be reproduced in full.

RESULTS ON DESPATCH

Applied Conce	Applied Concentration		
Isobutylene	100 ppm		
Hydrogen Sulphide	20 ppm		
Carbon Monoxide	39 ppm		
Oxygen	20.9 % O ₂		
Methane	59.9 % CH ₄		
Carbon Dioxide	40.1 % CO ₂		
Barometric Pressure	1004.0 mbar		
Borehole Pressure	1004.0 mbar		

Instrument I	ndication	
100 ppm	VOC	
20 ppm	Hydrogen Sulphide	
40 ppm	Carbon Monoxide	
21.0 %	Oxygen	
59.9 %	Methane	
40.6 %	Carbon Dioxide	
1004	mbar	
1004	mbar	

The estimated applied gas uncertainty is ± 2.0%

Comments: -

PD-FM-077-04



CERTIFICATE OF CALIBRATIONGasClam

CALIBRATION CERTIFICATE NO:

49608

Fax: 01793 784466

service@shawcity.co.uk

ISSUED BY:

SHAWCITY LIMITED

DATE:

01.10.13

APPROVED SIGNATORY:

Calmer.

NAME:

Peter Gunter

CUSTOMER:

Ground Gas Solutions Ltd

INSTRUMENT:

GasClam

SERIAL NUMBER:

000033/12/09

CALIBRATION METHOD:

CM14

AMBIENT CONDITIONS:

20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.

The instrument was calibrated by exposing the sensor to known values of gas concentrations.

All gases were sampled through the complete probe and in line filter, where applicable.

The reference values are those generated by the certified source and the indicated values are those measured by the instrument.

CALIBRATION RESULTS

GAS/SOURCE	LOT No	REF. VALUE	INDICATED VALUE
Oxygen	Ambient Air	20.9% O2	20.9% O2
Nitrogen	1467959	>99.999%	0.0% O2
Methane	1467968	60.0%	60.0%
Carbon Dioxide	1467968	40.0%	40.0%
Hydrogen Sulphide	1480827	50 ppm	50 ppm
Carbon Monoxide	1500844	50 ppm	50 ppm
Isobutylene	1464995	100 ppm	100 ppm
Barometric Pressure	Digitron 2025P	993 mbar	993 mbar
Borehole Pressure	Digitron 2025P	993 mbar	993 mbar

COMMENTS:

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2.

This provides a level of confidence of uncertainty of approximately 95%.

The uncertainty of measurement is ±2 ppm.

The results indicate that the instrument conforms to the applicable parts of the published specification.



CERTIFICATE OF CALIBRATION GasClam

CALIBRATION CERTIFICATE NO:

49720

ISSUED BY:

SHAWCITY LIMITED

DATE:

04.11.13

APPROVED SIGNATORY:

CAGINER

NAME:

Peter Gunter

CUSTOMER:

Ground Gas Solutions Ltd

INSTRUMENT:

GasClam

SERIAL NUMBER:

000030/12/09

CALIBRATION METHOD:

CM14

AMBIENT CONDITIONS:

20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.

The instrument was calibrated by exposing the sensor to known values of gas concentrations.

All gases were sampled through the complete probe and in line filter, where applicable.

The reference values are those generated by the certified source and the indicated values are those measured by the instrument.

CALIBRATION RESULTS

GAS/SOURCE	LOT No	REF. VALUE	INDICATED VALUE
Oxygen	Ambient Air	20.9% O2	20.9% O2
Nitrogen	1467959	>99.999%	0.0% O2
Methane	1467968	60.0%	60.0%
Carbon Dioxide	1467968	40.0%	40.0%
Hydrogen Sulphide	1480827	50 ppm	50 ppm
Carbon Monoxide	1467966	50 ppm	50 ppm
Isobutylene	1504738	100 ppm	100 ppm
Barometric Pressure	Digitron 2025P	989 mbar	989 mbar
Borehole Pressure	Digitron 2025P	989 mbar	989 mbar

COMMENTS:

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2.

This provides a level of confidence of uncertainty of approximately 95%.

The uncertainty of measurement is ±2 ppm.

The results indicate that the instrument conforms to the applicable parts of the published specification.

TEST DATE AND CONDITIONS				
Date	20/02/2013			
Atmospheric Pressure	1011mB			
Ambient Temp	19.7°C			
Environics Serial No.	3268			

GAS DATA LTD	1
Pegasus House	
Seven Stars Estate	
Wheler Rd	
Coventry	
CV3 4LB	
Tel 02476303311 Fax 024	76307711

GFM435-1 FINAL INSPECTION & CALIBRATION CHECK CERTIFICATE

FLOW CHECKS							
Calibra	ation Flow	Inst	Instrument Flow Channels Read				
Applied	Applied Pressure	Flow	Flow tol. Differential Pressure				
Flow		[Flow] (l/hour)	(l/hour)	[Dp] (Pa)	(Pa)		
-30.0 l/hour	-253 Pa	-31.6	+/-3.0	-284	+/-50		
-3.0 1/hour	-12 Pa	-3.0	+/-1.0	-11	+/-6		
0.0 l/hour	0 Pa	0.0	0.0	0	0.0		
+3.0 l/hour	12 Pa	3.0	+/-0.5	11	+/-3		
+30.0 1/hour	269 Pa	30.0	+/-3.0	270	+/-50		
+60.0 l/hour	823 Pa	60.7	+/-6.0	853	+/-130		
+90.0 l/hour	1634 Pa	91.8	+/-9.0	1726	+/-250		

	OPTIONAL GAS CHECKS						
Calibra	Calibration Gas Instrument Gas Channels Read						
Gas	Applied	Label	H2S	CO		Hexane	tol.
Type	Conc.	Range	5000ppm	2000ppm		2%	(% vol.)
N2	100%		0	0		0	+/- 5.0
H2S	1500ppm		1500	0			+/- 5.0
CO	1000ppm		80	1002			+/- 5.0
							+/- 5.0
							+/- 5.0
							+/- 5.0
Hexane	20000ppm					1.916	+/- 10.0

	TEMPERATURE CHECK					
Calibration	Instrument Temperature Channel Read					
Temperature						
Applied Equivalent	Temperature	tol.				
Temperature	[Temp] (°C)	(°C)				
-10.0 °C	-9.5	+/- 2.0				
0.0 °C	0.0	+/- 1.0				
30.0 °C	30.0	+/- 1.0				
60.0 °C	60.0	+/- 1.0				
100.0 °C	100.0	+/- 1.0				

TEST DATE AND CONDITIONS					
Date	20/02/2013				
Atmospheric Pressure	1011mB				
Ambient Temp	19.7°C				
Environics Serial No.	3268				

GAS DATA LTD Pegasus House Seven Stars Estate Wheler Rd Coventry CV3 4LB Tel 02476303311 Fax 02476307711

GFM435-1 FINAL INSPECTION & CALIBRATION CHECK CERTIFICATE

INSTRUMENT DETAILS					
Serial No	Customer				
11028	Ground Gas Solutions Ltd				

INSTRUMENT CHECKS						
Keyboard	\	Pump Flow	500cc/min			
Display Contrast	. \	Pump Flow @ -200mB	300cc/min			
Clock Set / Running	1	S/W Version	G435.0024/0001			
Labels Fitted	1	Recalibration Date	20/02/2014			

GAS CHECKS										
Calibration C	Calibration Gas			Instrument Gas Channels Read						
Gas Type	Applied	CH4	tol.	CO2	tol.	O2	tol.			
	Conc.	(%)	(% vol.)	(%)	(% vol.)	(%)	(% vol.)			
N2	100%	0.0	0.0	0.0	0.0	0.0	+/-0.1			
CH4	5 %	5.0	+/-0.3	0.0	0.0	0.0	+/-0.1			
CII+	60%	59.4	+/-3.0	0.0	0.0	-0.1	+/-0.1			
CO2	5%	0.0	0.0	4.9	+/-0.3	-0.2	+/-0.1			
	40%	0.0	0.0	40.8	+/-3.0	-0.8	+/-0.1			
AIR (20.9% O2, 400ppm CO2)	100%	0.0	0.0	0.0	+0.1	20.8	+/-0.5			
	•									

	PRESSURE CHECKS							
Calibration	n Pressure		Instrument Pressure Channels Read					
Pressure @	Applied	Atmospheric	tmospheric tol.					
	Pressure	[Ap] (mB)	(mB)					
All ports	current atmospheric	1011	+/-2.0					
Ap port	+800mB(a)	801	+/-5.0					
(internal)	+1200mB(a)	1203	+/-5.0					
					that:			
			0.7 (7.4)					

TEST DATE AND CONDITIONS						
Date 25.2.13						
Atmospheric Pressure	1016 mB					
Ambient Temp	19.2 °C					
Environics Serial No.	3268					

GAS DATA LTD

Pegasus House Seven Stars Estate Wheler Rd. Coventry CV3 4LB



Environi	cs Serial No. 3268	Tel: 02	24 76 303311 Fax:	: 024 76 307	711
GFM43	5 (MCERTS) OUTWAR	RD INSPECTIO	N & QUALITY	CHECK	SHEET
	INS	TRUMENT DETA	AILS		
SO Numb		nstrument Serial	Job Number(s)		
	Banner Num	nber + SW Version			
30592	1 GAMU35 1102	8-24.01	12158 -		
Calibratio	on Technician	SD	DATE	20-	-2-20
Inspection	n Technician	••••••	DATE	*******	5.2.13
	INSTRUMENT CHECKS	Pass (P), Fail (F) or	INSTRUMENT PA	ACKING	Tick if
Function	Dust Caps Fitted	not applicable(NA)	LIST Instrument		include
Tests	Keyboard Test (All keys)	5	Leather Case		V
	Backlight Test	5	Instrument Strap		V
	Clock Set / Running	0	AC Battery Charger (U	IK)	1
	Comms Test	5			V
	Pump Flow Test (In & Out)	10	AC Battery Charger (EURO) AC Battery Charger (US)		1
	Overall Leak Test (30mb)	5	Gas Sample Pipe		X
	Battery Charge Test	10	Hard Carry Case		1
	Service Date set to?	20.2.14	Spares Pot		7
Channel	Data Logging Enabled?	NA	Allen Key		X
Tests	Verify CH4/LEL/Hexane/PID		Flow Sample Pipe		1
	Verify CO2	0	Pressure Sample Pipe		X
	Verify O2	6	Temperature Probe		-
	Verify H2S	5	Vane Anemometer		X
	Verify CO	D	USB Cable		^
	Verify 1st Option gas	NA	USB Memory Stick		V
	Verify 2nd Option gas	NA	SiteMan Software	Ver	11 12
	Verify atmospheric pressure	D	Internal Filter Pack	Qty	4.12
	Verify differential pressure	5	External Filter Pack	Qty	-
	Verify flow	5	Field Guide	Qıy	1
	Verify temperature probe input	P	Extra Items:		7
	Verify vane anemometer input	5	Extra items:		
DataBase Checks	Jobcard(s) completed and signed	P			
	Jobcard(s) booked off database	P			
	Calibration certificate completed	P			
,	Complete & print QI record	NA			
Label	No. of Calibration label fitted	2495	Comments		
Checks	MCERTS label displayed	P			
	Warranty label fitted	P			
H2S Range	H2S Range from SO	2000			
H2S Range	H2S Range from cal cert	2000			
Over-range	Over-range value correct?	D			

Over-range

Over-range value correct?

TEST DATE AND CONDITIONS					
Date 20/01/					
Atmospheric Pressure	996mB				
Ambient Temp	20.6°C				
Environics Serial No.	2518				

GAS DATA LTD Pegasus House Seven Stars Estate Wheler Rd Coventry CV3 4LB Tel 02476303311 Fax 02476307711

GFM430-1 FINAL INSPECTION & CALIBRATION CHECK CERTIFICATE

FLOW CHECKS							
Calibra	ation Flow	Ins	Instrument Flow Channels Read				
Applied	Applied Pressure	Flow	tol.	Differential Pressure	tol.		
Flow		[Flow] (l/hour)	(l/hour)	[Dp] (Pa)	(Pa)		
-30.0 l/hour	-242 Pa	-27.8	+/-3.0	-219	+/-50		
-3.0 l/hour	-11 Pa	-2.5	+/-1.0	-9	+/-6		
0.0 l/hour	0 Pa	0.0	0.0	0	0.0		
+3.0 l/hour	11 Pa	2.8	+/-0.5	9	+/-3		
+30.0 l/hour	250 Pa	27.9	+/-3.0	226	+/-50		
+60.0 l/hour	753 Pa	57.1	+/-6.0	655	+/-130		
+90.0 l/hour	1483 Pa	86.3	+/-9.0	1357	+/-250		

	OPTIONAL GAS CHECKS								
Calibra	tion Gas			Instrume	nt Gas Channels Re	ead			
Gas	Applied	Label	H2S	CO		tol.			
Type	Conc.	Range	2000ppm	2000ppm		(% vol.)			
N2	100%		0	0		0.0			
H2S	100ppm		99	0		+/- 5.0			
CO	1000ppm		74	994		+/- 5.0			
						+/- 5.0			
						+/- 5.0			
						+/- 5.0			

	TEMPERATURE CHECK					
Calibration	Instrument Temperature Channel	Read				
Temperature						
Applied Equivalent	Temperature	tol.				
Temperature	[Temp] (°C)	(°C)				
-10.0 °C	-9.5	+/- 2.0				
0.0 °C	0.0	+/- 1.0				
30.0 °C	30.0	+/- 1.0				
60.0 °C	60.0	+/- 1.0				
100.0 °C	100.0	+/- 1.0				

TEST DATE AND CONDITIONS					
Date	20/01/14				
Atmospheric Pressure	996mB				
Ambient Temp	20.6°C				
Environics Serial No.	2518				

GAS DATA LTD

Pegasus House Seven Stars Estate

Wheler Rd

Coventry

CV3 4LB

Tel 02476303311 Fax 02476307711



GFM430-1 FINAL INSPECTION & CALIBRATION CHECK CERTIFICATE

INSTRUMENT DETAILS					
Serial No	Customer				
10356	Ground Gas Solutions Ltd				

INSTRUMENT CHECKS					
Keyboard	✓	Pump Flow	>500cc/min		
Display Contrast	✓	Pump Flow @ -200mB	300cc/min		
Clock Set / Running	√	S/W Version	G430.0024/0013		
Labels Fitted	√	Recalibration Date	20/01/15		

	GAS CHECKS									
Calibration C	as		Instrument Gas Channels Read							
Gas Type	Applied	CH4	tol.	CO2	tol.	O2	tol.			
	Conc.	(%)	(% vol.)	(%)	(% vol.)	(%)	(% vol.)			
N2	100%	0.0	0.0	0.0	0.0	0.0	+0.1			
CH4	5 %	4.9	+/-0.3	0.0	0.0	0.0	+0.1			
	60%	60.9	+/-3.0	0.0	0.0	0.0	+0.1			
CO2	5%	0.0	0.0	4.9	+/-0.3	0.0	+0.1			
	40%	0.0	0.0	39.8	+/-3.0	0.0	+0.1			
AIR (20.9% O2, 400ppm CO2)	100%	0.0	0.0	0.1	+0.1	20.8	+/-0.5			

		PRESS	URE CH	ECKS					
Calibration	n Pressure		Instrument Pressure Channels Read						
Pressure @	Applied	Atmospheric	tol.						
	Pressure	[Ap] (mB)	(mB)						
All ports	current atmospheric	996	+/-2.0						
Ap port	+800mB(a)	799	+/-5.0						
(internal)	+1200mB(a)	1201	+/-5.0						

TEST DATE AND CONDITIONS Date 21.1.14 Atmospheric Pressure 998 mB Ambient Temp 181 °C Environics Serial No. 2633

GAS DATA LTD

Pegasus House Seven Stars Estate Wheler Rd. Coventry CV3 4LB

Tel: 024 76 303311

Fax: 024 76 307711

GFM400 SERIES OUTWARD INSPECTION & QUALITY CHECK SHEET

		INS	TRUMENT DETA	ILS			
SO Numb	per Instrument Type	Instru	ment Serial Number	ber Job Number(s)			
30776			0356	15427 -		-	
	n Technician	OS	9	D			1-14
Inspection	Technician						11.4
	INSTRUMENT		Pass (P), Fail (F) or not	INSTRUMENT	PACKING	LIST	Tick if
E	CHECKS	•	applicable (NA)	Instrument			included
Function Tests	Dust Caps Fitted		B	THE REST OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I			V
10303	Keyboard Test (All Keys)		7	Leather Case			V
	Backlight Test		P	Instrument Strap	(1117)		7
	Clock Set / Running		P	AC Battery Char			7
	Comms Test		P	AC Battery Char			X
	Pump Flow Test (In & Ou	-	P	AC Battery Char			X
	Overall Leak Test (30mB)		P	Gas Sample Pipe			7
	Battery Charge Test		P	Operation Manua	al (hardcopy)		X
	Service Date set to?		20.1.15	Carry Case			V
Channel Test	Data Logging Enabled?	****	NA	Spares Pot			7
	Verify CH4/LEL		P	Allen Key			V
	Verify CO2		P	Flow Sample Pipe			X
	Verify O2		P		Pressure Sample Pipe		
	Verify first optional gas		P	Temperature Probe			X
	Verify second optional gas	3	P	Vane Anemomet	er		X
	Verify third optional gas		NA	USB Cable			>
	Verify fourth optional gas		NA	USB Memory sti			X
	Verify atmospheric pressu	re	P	SiteMan Softwar		Ver	X
	Verify static pressure		NA	Internal Filter Pa	ck	Qty	X
	Verify differential pressur	e	P	External Filter Pa	ack	Qty	1
	Verify flow		P	Field Guide		X	
	Verify temperature probe	input	P	Extra Items:			,
	Verify vane anemometer i	nput	P				
DataBase	Jobcard(s) completed and	signed	P				
Checks	Jobcard(s) booked off data	abase	P				
	Calibration certificate con	pleted	P				
	Complete & print QI recor	rd	NA				
Label Checks	No. of Calibration label fi	tted	3686				
	Warranty label fitted	-	P	Comments			
H2S Range	H2S Range from Sales Or	der	2000				
H2S Range	H2S Range from Calibrati Certificate		2000				
Over-range	Over-range value correct?		P				

CECIENCE

CHECKLIST FOR PHOCHECK TIGER PRODUCT RANGE

KIT CONTENTS

PhoCheck Tiger Instrument	/
PhoCheck Tiger Select Instrument	
Li-ion Battery Pack	V
Alkaline Battery Pack	
Instrument Boot	-
Charger	1
Power Supply (12V)	1
Quick Start Guide (Standard)	/
Quick Start Guide (Tiger Select)	
Warranty Registration Card	1
USB Stick	1
USB Cable	/
Accessory Kit	1

Benzene Pre-Filter Tubes (pack of 10)	
Benzene Tube Holder	TE
Benzene Tube Opener	

UPGRADES

H&S (STEL & TWA)	861300
PPB (Sensitivity)	861301
Data Logging (Full)	861303
Single Log (Push to log)	861309
Multi Log	861310
Tiger Select	

QUALITY CHECK

Software version:	0.4.22		
Integrity seal present?	Yes / No		

Final instrument inspection date:	ANT	25,09,13
Tillar illati differit illapection date.	. Sightable	

PD-FM-075-07

CALIBRATION CERTIFICATE



Date of Calibration: - 25th September 2013

Calibrated by: - M.Wadey-Leblond

Customer: - Shawcity Limited

Description: - PhoCheck Tiger

Manufacturer: - ION Science Ltd

Type Number: - N/A

Serial Number: - T-107622

Certificate Number: - 224459

Calibration Due date: - September 2014

This instrument has been factory calibrated to fully documented procedures in accordance with our ISO 9001:2008 Quality Management System.

Measurement standards are derived from volumetric and time sources which have been calibrated at a UKAS accredited laboratory. The following list indicates the serial numbers of equipment used during the calibration procedure.

BAR02	A-861251	C9081 / A82741	

¹ Gas mixtures prepared using equipment traceable to N.P.L. standards against Suppliers Certificate No

The instrument has been calibrated at a temperature of 21.0° C $\pm 0.25^{\circ}$ C and a barometric pressure of 1008.7 mbar ± 2 mbar.

ION Science hereby certify that on the day of calibration the instrument was working according to the manufacturer's original sales specification as checked by the calibration procedure, unless otherwise stated.

RESULTS ON DESPATCH

Applied Concentration	Instrument Indication	
99.9 ppm lsobutylene	99.6 ppm Isobutylene	

The estimated applied gas uncertainty is ± 2.0%

Comments: -

PD-FM-086-04

Unrivalled Detection.

Unrivalled Detection.



CERTIFICATE OF CALIBRATION

PhoCheck Tiger

CALIBRATION CERTIFICATE NO:

50410

ISSUED BY:

SHAWCITY LIMITED

DATE:

15-Jan-14

APPROVED SIGNATORY:

THE CART

NAME:

Steven Black

CUSTOMER:

Ground Gas Solutions Ltd

INSTRUMENT:

PhoCheck Tiger

SERIAL NUMBER:

T-105553

CALIBRATION METHOD:

CM03

AMBIENT CONDITIONS:

20°C ± 2°C and 50% (± 20%) RH

Prior to calibration the instrument was allowed to stabilise in the laboratory for at least 30 minutes.

The instrument was calibrated by exposing the sensor to known values of gas concentrations.

All gases were sampled through the complete probe and in line filter, where applicable.

The reference value is that generated by the certified source and the indicated value is that measured by the instrument.

CALIBRATION RESULTS

GAS	LOT No	REF. VALUE	INDICATED VALUE
Isobutylene	1504738	100 ppm	100 ppm
Isobutylene	SIPCYL-7761	1000ppm	1000ppm

COMMENTS:

The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor of k=2.

This provides a level of confidence of uncertainty of approximately 95%.

The uncertainty of measurement is ±2 ppm.

The results indicate that the instrument conforms to the applicable parts of the published specification.

GGS DataPack® Hednesford Hill, Cannock Chase

Appendix E

GasClam® Overview & Deployment Information Sheet





GGS GasClam[®] Instrumentation Overview & Deployment Information





Introduction

GGS GasClam[®] instruments are in-situ borehole continuous ground-gas monitoring devices, suitable for detection of a wide range of ground gases commonly found in borehole monitoring. The equipment is ATEX approved, IP68 rated, operates safely in explosive atmospheres and can survive flooding environments. Instruments can also be secured to building walls or placed internally to monitor sub-floor spaces or indoor air.

GGS owns a large fleet of GasClam[®] instruments, with the following gas sensors as standard: Methane, Carbon Dioxide, Oxygen, Total Volatile Organic Compounds, Carbon Monoxide and Hydrogen Sulphide. To allow correlations to be drawn between groundgases and environmental changes, the instruments are also fitted with sensors for atmospheric pressure, borehole pressure and temperature.

For sites where very low levels of Methane and Carbon Dioxide need to be measured, such as subfloor void or internal monitoring, GGS uses instruments fitted with low range, high resolution sensors (specification below).

Should sites be influenced by water level changes, GGS also installs equipment to provides continuous water level logging alongside continuous ground-gas monitoring.

GasClam® Sensor Specifications, Service and Maintenance

GGS GasClam[®] instruments are serviced and calibrated annually. Routine maintenance including the replacement of filters and operational checks are carried out at regular intervals and prior to deployment at a site. Copies of the calibration certificates for the instruments used on site are included as standard within reporting. Details of the sensor specifications are provided below:

Sensor	Method / Type	Range	Resolution
Methane (0-100%)	Infrared	0 - 100%v/v	1% of measuring range above
Methane (0-10078)			50%, 0.5% below 50%
#Methane (0-5%)	Infrared	0-5%v/v	0.05%
Carbon Dioxide (0-100%)	Infrared	0 - 100%v/v	1% of measuring range above
			50%, 0.5% below 50%
*Carbon Dioxide (0-5%)	Infrared	0-5%v/v	0.05%
Oxygen	Electrochemical	0 - 25%v/v	0.1%
*Hydrogen Sulphide	Electrochemical	0 - 100ppmv	1ppmv
*Carbon Monoxide	Electrochemical	0 - 1000ppmv	1ppmv
*Total Volatile Organic Compounds	PID	0 - 4000ppmv	1ppmv
Atmospheric Pressure	Piezoelectric	800 - 1200mb	1mBar
Borehole Pressure	Piezoelectric	800 - 1200mb	1mBar
Temperature	Internal chip	-5°C to +50°C	1°C

^{*}Only installed on the 0-5% High Resolution GasClam® * Only installed in VOC GasClam®

GGS GasClam® equipment is battery powered and runs off two D cell batteries. Battery life is variable and depends on the site conditions (moisture levels and temperature), GGS will schedule interim site visits to change batteries when required.

Deployment Requirements

For GGS GasClam[®] instruments to be deployed, standard 50mm installation standpipes are required (larger diameter boreholes can be accommodated for). Headworks with enough clearance and a suitable secure cover are also required. GGS recommends that a minimum 8 inch diameter flush fit cover (for example MW8 covers available from Stuart Wells) be used. A minimum 100mm clearance is required from the top of the 50mm standpipe to the underside of the cover. Minimum 150mm internal headworks diameter is required (75mm clear radius from centre of standpipe). Standing water level should be greater than 0.9m below the standpipe top due to the instrument halting gas sampling automatically to avoid taking water internally.

GGS also deploys GasClam[®] instruments within buildings or fixed to external walls within protective and secure housing to monitor indoor air or subfloor void spaces of existing buildings or for verification purposes.

Ground-Gas Solutions Ltd

If the above requirements cannot be achieved, please contact GGS to discuss site specific deployment options – there probably is one!

Greenheys Manchester Science Park Pencroft Way

Manchester M15 6JJ

Telephone: 0161 232 7465

GasClam Insurance

GGS carries specific insurance to cover the instruments against theft from site and is included as standard as part of our service.

E-mail: info@ground-gassolutions.co.uk **Web:** www.ground-gassolutions.co.uk



www.campbellreith.com

Friars Bridge Court 41-45 Blackfriars Road London SE1 8NZ

Telephone: +44(0)20 7340 1700 Facsimile: +44(0)20 7340 1777 Email: london@campbellreith.com Structural + Civil + Environmental + Geotechnical + Traffic and Transportation

Raven House 29 Linkfield Lane Redhill Surrey RH1 1SS

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