

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	18/05/2010
Weather	Sunshine
Atmospheric Pressure Range (mb)	1018-1021 (rising)
Equipment	GA45+ (GEO 02=Derby) & Dipmeter
Operator	DJH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading							
WS2	Peak	0.0	0.1	17.1	0.0	2.59	15	Monitored for 100 seconds
	Steady	0.0	0.1	17.1	0.0			
WS3	Peak	0.0	1.1	16.7	0.0	NGW	40	Monitored for 100 seconds
	Steady	0.0	1.0	16.7	0.0			
WS4	Peak	0.1	2.7	17.5	0.0	2.17	30	Monitored for 100 seconds
	Steady	0.0	2.7	17.5	0.0			
WS5A	Peak	0.0	1.0	17.5	0.0	NGW	15	Monitored for 100 seconds
	Steady	0.0	1.0	17.5	0.0			
WS6	Peak	0.0	1.1	19.6	0.0	0.38	30	Monitored for 75 seconds. Water ingress into pipe occurred after this time
	Steady	0.0	1.1	19.6	0.0			
WS7	Peak	0.0	0.2	19.7	0.0	NGW	15	Monitored for 100 seconds
	Steady	0.0	0.2	19.7	0.0			
WS8	Peak	0.0	1.1	19.0	0.0	1.82	30	Monitored for 100 seconds
	Steady	0.0	1.1	19.0	0.0			
WS9	Peak	0.0	0.2	20.3	0.1	2.30	15	Monitored for 100 seconds
	Steady	0.0	0.2	20.3	0.0			
WS10	Peak	0.0	2.4	18.6	0.0	2.78	40	Monitored for 100 seconds
	Steady	0.0	2.4	18.6	0.0			
Ambient		0.0	0.0	21.0	N/A	N/A	N/A	

Notes

- Cell is highlighted in the following conditions
- Where Methane exceeds 1% v/v (after BR212)
 - Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	27/05/2010
Weather	Sunny and dry
Atmospheric Pressure Range (mb)	1003 (steady)
Equipment	GA2000 (GEO 09=Notts) & Dipmeter
Operator	DJH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading. Well purged with a bailer for 3x well volume. Water recharged to surface within 30 seconds.							
WS2	Peak	0.0	0.4	18.1	0.0	2.59	30	Monitored for 100 seconds
	Steady	0.0	0.4	18.1	0.0			
WS3	Peak	0.0	4.1	10.8	0.0	2.85	40	Monitored for 100 seconds
	Steady	0.0	4.1	10.8	0.0			
WS4	Peak	0.0	2.5	19.4	0.0	1.67	20	Monitored for 100 seconds
	Steady	0.0	2.5	19.4	0.0			
WS5A	Peak	0.0	5.7	13.3	0.0	NGW	50	Monitored for 100 seconds
	Steady	0.0	5.7	13.3	0.0			
WS6	Peak	0.0	2.3	19.2	0.0	0.29	10	Monitored for 20 seconds before water ingress into pipe. Well purged with a bailer for 3x well volume. Water recharged to 0.50m within 1 minute.
	Steady	0.0	2.3	19.2	0.0			
WS7	Peak	0.0	4.4	7.1	0.0	NGW	40	Monitored for 100 seconds
	Steady	0.0	4.4	7.1	0.0			
WS8	Peak	0.0	4.1	13.1	0.0	1.83	30	Monitored for 100 seconds
	Steady	0.0	4.1	13.1	0.0			
WS9	Peak	0.0	0.6	20.2	0.0	1.10	30	Monitored for 100 seconds
	Steady	0.0	0.6	20.2	0.0			
WS10	Peak	0.0	2.8	19.0	0.0	2.26	20	Monitored for 100 seconds
	Steady	0.0	2.8	19.0	0.0			
Ambient		0.0	0.0	20.5	N/A	N/A	N/A	

Notes

- Cell is highlighted in the following conditions
1. Where Methane exceeds 1% v/v (after BR212)
 2. Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	02/06/2010
Weather	Sunny and dry
Atmospheric Pressure Range (mb)	1016 (rising)
Equipment	GA2000 (GEO 1=Derby) & Dipmeter
Operator	CH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading							
WS2	Peak	0.0	0.5	17.1	0.0	2.41	70	Monitored for 120 seconds
	Steady	0.0	0.5	17.1	0.0			
WS3	Peak	0.0	3.8	12.0	0.0	2.68	60	Monitored for 120 seconds
	Steady	0.0	3.8	12.0	0.0			
WS4	Peak	0.0	2.4	19.3	0.0	1.41	50	Monitored for 120 seconds
	Steady	0.0	2.4	19.4	0.0			
WS5A	Peak	0.0	3.6	15.8	0.0	NGW	240	Monitored for 250 seconds
	Steady	0.0	3.6	15.8	0.0			
WS6	Peak	0.0	0.3	20.3	0.0	0.37	80	Monitored for 120 seconds
	Steady	0.0	0.0	20.8	0.0			
WS7	Peak	0.0	1.5	19.6	0.0	NGW	30	Monitored for 120 seconds
	Steady	0.0	1.5	19.6	0.0			
WS8	Peak	0.0	3.1	16.4	0.0	1.91	50	Monitored for 120 seconds
	Steady	0.0	3.1	16.4	0.0			
WS9	Peak	0.0	1.5	20.3	0.0	1.19	115	Monitored for 125 seconds
	Steady	0.0	1.5	20.3	0.0			
WS10	Peak	0.0	3.3	19.2	0.0	1.97	40	Monitored for 120 seconds
	Steady	0.0	3.3	19.2	0.0			
Ambient		0.0	0.0	20.8	N/A	N/A	N/A	

Notes

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1. Where Methane exceeds 1% v/v (after BR212)
 2. Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	09/06/2010
Weather	Heavy rain
Atmospheric Pressure Range (mb)	998-999 (rising)
Equipment	GA2000 (GEO 9=Notts) & Dipmeter
Operator	DJH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading							
WS2	Peak	0.0	0.6	17.6	0.0	2.02	20	Monitored for 120 seconds
	Steady	0.0	0.6	17.6	0.0			
WS3	Peak	0.1	3.0	11.1	0.0	1.92	50	Monitored for 120 seconds
	Steady	0.0	3.0	11.1	0.0			
WS4	Peak	0.0	1.6	19.5	0.0	1.00	20	Monitored for 120 seconds
	Steady	0.0	1.6	19.5	0.0			
WS5A	Peak	0.0	3.0	16.9	0.0	NGW	250	Monitored for 280 seconds
	Steady	0.0	3.0	16.9	0.0			
WS6	Peak	Borehole Flooded - Unable to take Gas Reading						
	Steady							
WS7	Peak	Borehole Destroyed (field area recently ploughed)						
	Steady							
WS8	Peak	0.0	9.4	1.5	0.0	1.91	60	Monitored for 120 seconds
	Steady	0.0	9.4	1.5	0.0			
WS9	Peak	0.0	0.5	20.2	0.0	1.13	30	Monitored for 120 seconds
	Steady	0.0	0.5	20.2	0.0			
WS10	Peak	0.0	3.2	19.0	0.0	1.63	40	Monitored for 120 seconds
	Steady	0.0	3.2	19.0	0.0			
Ambient		0.0	0.0	20.5	N/A	N/A	N/A	

Notes

- Cell is highlighted in the following conditions
1. Where Methane exceeds 1% v/v (after BR212)
 2. Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	16/06/2010
Weather	Sunny and dry
Atmospheric Pressure Range (mb)	1020 (steady)
Equipment	GA2000 (GEO 9=Notts) & Dipmeter
Operator	DJH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading							
WS2	Peak	0.0	0.9	17.7	0.0	1.94	20	Monitored for 120 seconds
	Steady	0.0	0.9	17.7	0.0			
WS3	Peak	0.0	1.4	17.9	0.0	1.62	30	Monitored for 120 seconds
	Steady	0.0	1.4	17.9	0.0			
WS4	Peak	0.0	1.3	19.4	0.0	0.73	20	Monitored for 120 seconds
	Steady	0.0	1.3	19.4	0.0			
WS5A	Peak	0.0	10.0	2.6	0.1	NGW	230	Monitored for 240 seconds
	Steady	0.0	10.0	2.6	0.1			
WS6	Peak	Borehole Flooded - Unable to take Gas Reading						
	Steady							
WS7	Peak	Borehole Destroyed						
	Steady							
WS8	Peak	0.0	5.4	14.2	0.0	0.95	100	Monitored for 120 seconds
	Steady	0.0	5.1	14.2	0.0			
WS9	Peak	0.0	1.2	19.4	0.0	1.29	30	Monitored for 120 seconds
	Steady	0.0	1.2	19.4	0.0			
WS10	Peak	0.0	2.3	19.2	0.3	0.67	50	Monitored for 120 seconds
	Steady	0.0	2.3	19.2	0.0			
WS11	Peak	0.0	3.8	14.6	0.0	NGW	20	Monitored for 120 seconds
	Steady	0.0	3.8	14.6	0.0			
WS13	Peak	0.0	2.0	16.5	0.0	NGW	20	Monitored for 120 seconds
	Steady	0.0	2.0	16.5	0.0			
WS16	Peak	0.0	3.1	15.8	0.0	NGW	20	Monitored for 120 seconds
	Steady	0.0	3.1	15.8	0.0			
Ambient		0.0	0.0	20.5	N/A	N/A	N/A	

Notes

- Cell is highlighted in the following conditions
- Where Methane exceeds 1% v/v (after BR212)
 - Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	22/06/2010
Weather	Sunny and dry
Atmospheric Pressure Range (mb)	1016-1017 (rising)
Equipment	GA2000 (GEO 9=Notts) & Dipmeter
Operator	DJH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading							
WS2	Peak	0.0	1.0	17.6	0.0	2.03	20	Monitored for 120 seconds
	Steady	0.0	1.0	17.6	0.0			
WS3	Peak	0.0	1.8	18.4	0.0	1.75	30	Monitored for 120 seconds
	Steady	0.0	1.8	18.4	0.0			
WS4	Peak	0.0	1.1	19.6	0.0	0.69	20	Monitored for 120 seconds
	Steady	0.0	1.0	19.6	0.0			
WS5A	Peak	0.0	6.1	11.9	0.0	NGW	250	Monitored for 300 seconds
	Steady	0.0	5.9	11.9	0.0			
WS6	Peak	Borehole Flooded - Unable to take Gas Reading						
	Steady							
WS7	Peak	Borehole Destroyed						
	Steady							
WS8	Peak	0.0	3.2	17.1	0.0	1.10	80	Monitored for 120 seconds
	Steady	0.0	3.1	17.1	0.0			
WS9	Peak	0.0	1.2	19.8	0.0	1.21	20	Monitored for 120 seconds
	Steady	0.0	1.2	19.8	0.0			
WS10	Peak	0.0	1.5	19.6	0.0	0.61	40	Monitored for 120 seconds
	Steady	0.0	1.5	19.6	0.0			
WS11	Peak	0.1	5.6	14.3	0.0	NGW	40	Monitored for 120 seconds
	Steady	0.1	5.6	14.3	0.0			
WS13	Peak	0.0	2.7	16.1	0.0	NGW	20	Monitored for 120 seconds
	Steady	0.0	2.7	16.1	0.0			
WS16	Peak	0.0	4.0	14.9	0.0	NGW	20	Monitored for 120 seconds
	Steady	0.0	4.0	14.9	0.0			
Ambient		0.0	0.0	20.6	N/A	N/A	N/A	

Notes

- Cell is highlighted in the following conditions
- Where Methane exceeds 1% v/v (after BR212)
 - Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered

Project No.	10172
Client	Westerman Homes
Site Location	Field Farm, Stapleford
Date	01/07/2010
Weather	Warm with light rain
Atmospheric Pressure Range (mb)	1005 (steady)
Equipment	GA2000 (GEO 9=Notts) & Dipmeter
Operator	DJH

MONITORING OF SOIL GASES AND GROUNDWATER - IN ACCORDANCE WITH CIRIA C665								
Borehole No.	Peak Steady	Methane (% v/v)	Carbon Dioxide (% v/v)	Oxygen (% v/v)	Gas Flow (l/h)	Depth to Groundwater (mbgl)	Time to steady reading (secs)	Other Issues i.e. odour, condition of installation, etc
WS1	Borehole Flooded - Unable to take Gas Reading							
WS2	Peak	0.0	1.2	17.7	0.0	2.09	20	Monitored for 120 seconds
	Steady	0.0	1.2	17.7	0.0			
WS3	Peak	0.0	2.2	17.8	0.0	1.79	30	Monitored for 120 seconds
	Steady	0.0	2.2	17.8	0.0			
WS4	Peak	0.1	0.7	19.9	0.0	0.65	20	Monitored for 120 seconds
	Steady	0.0	0.7	19.9	0.0			
WS5A	Peak	0.0	11.4	5.1	0.0	NGW	280	Monitored for 300 seconds
	Steady	0.0	11.1	5.1	0.0			
WS6	Peak	Borehole Flooded - Unable to take Gas Reading						
	Steady							
WS7	Peak	Borehole Destroyed						
	Steady							
WS8	Peak	0.1	2.1	19.1	0.0	1.27	60	Monitored for 120 seconds
	Steady	0.0	2.1	19.1	0.0			
WS9	Peak	0.0	0.8	20.1	0.0	1.07	30	Monitored for 120 seconds
	Steady	0.0	0.6	20.1	0.0			
WS10	Peak	0.0	0.6	20.1	0.0	0.58	40	Monitored for 120 seconds
	Steady	0.0	0.6	20.1	0.0			
WS11	Peak	0.0	6.0	14.0	0.0	NGW	40	Monitored for 120 seconds
	Steady	0.0	6.0	14.0	0.0			
WS13	Peak	0.0	3.4	16.6	0.0	NGW	80	Monitored for 120 seconds
	Steady	0.0	3.4	16.6	0.0			
WS16	Peak	0.0	4.7	16.0	0.0	NGW	30	Monitored for 120 seconds
	Steady	0.0	4.7	16.0	0.0			
Ambient		0.0	0.0	20.5	N/A	N/A	N/A	

Notes

- Cell is highlighted in the following conditions
- Where Methane exceeds 1% v/v (after BR212)
 - Where Carbon Dioxide exceeds 5% v/v (after BR212)
- NA - Not Applicable/ Not Available
 BOH - Bottom of Hole
 ND - Not Determined
 NGW - No groundwater encountered