

Factual Report



Site	27 Aberdare Gardens London NW6 3AJ
Client	Green Structural Engineering Ltd
Date	December 2014
Our Ref	FACT/4916

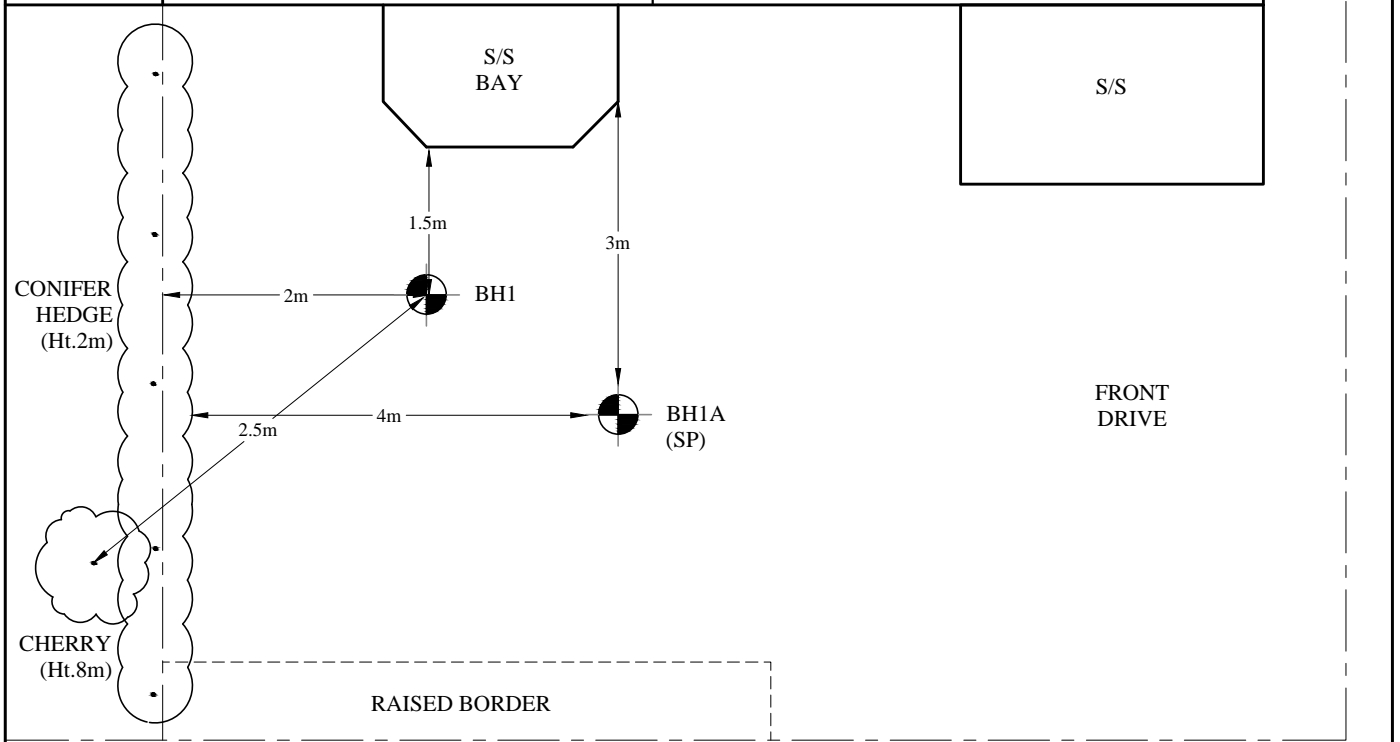
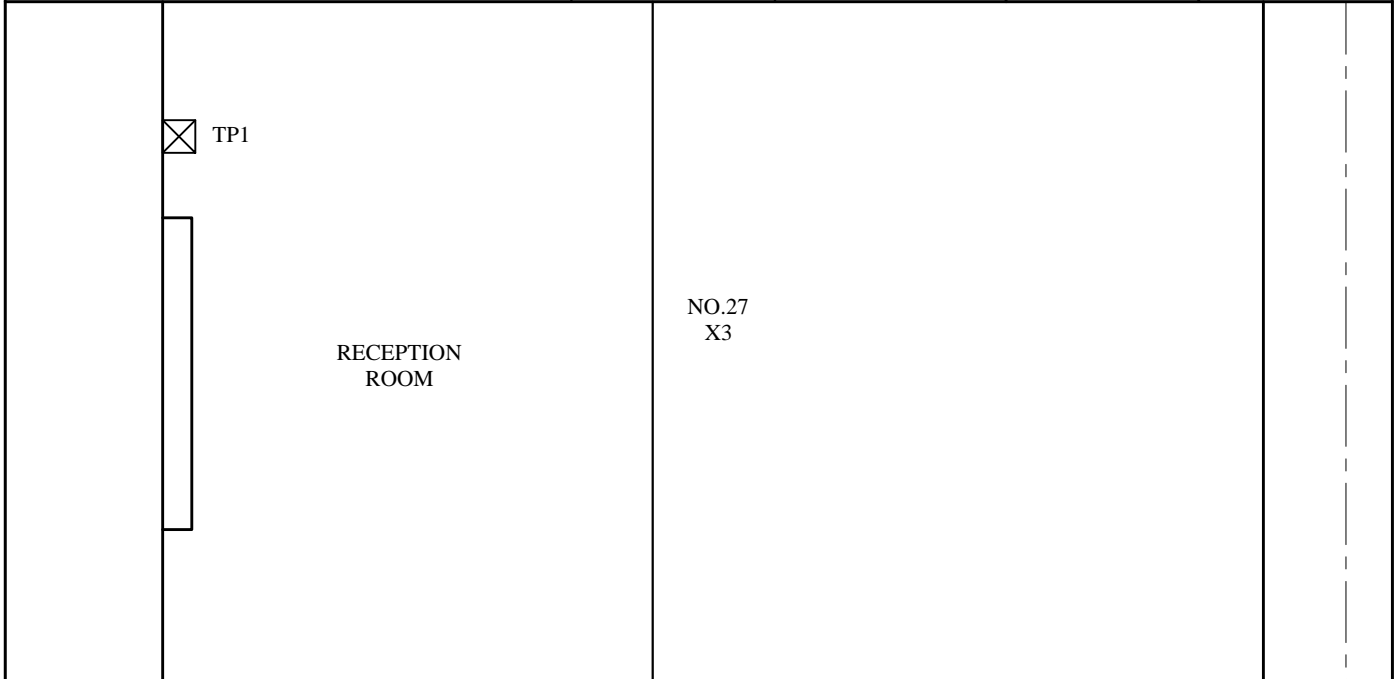
Chelmer Site Investigations

Unit 15 East Hanningfield Industrial Estate
 Old Church Road, East Hanningfield, Essex CM3 8AB
 Telephone: 01245 400930 Fax: 01245 400933

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Client: Green Structural Engineering Ltd	Scale: N.T.S.	Sheet: 1 of 2	Date: 29.10.14	
Location: 27 Aberdare Gardens, London NW6	Job No: 4916	Weather: Rain	Drawn by: JP	Checked by: ME



Notes:
On site tree identification for guidance only. Not authenticated.

Key:

						
Tree/Shrub	Borehole	Trial Pit	Gully	Tree Stump	Rain Water/ Soil Pipe	MH

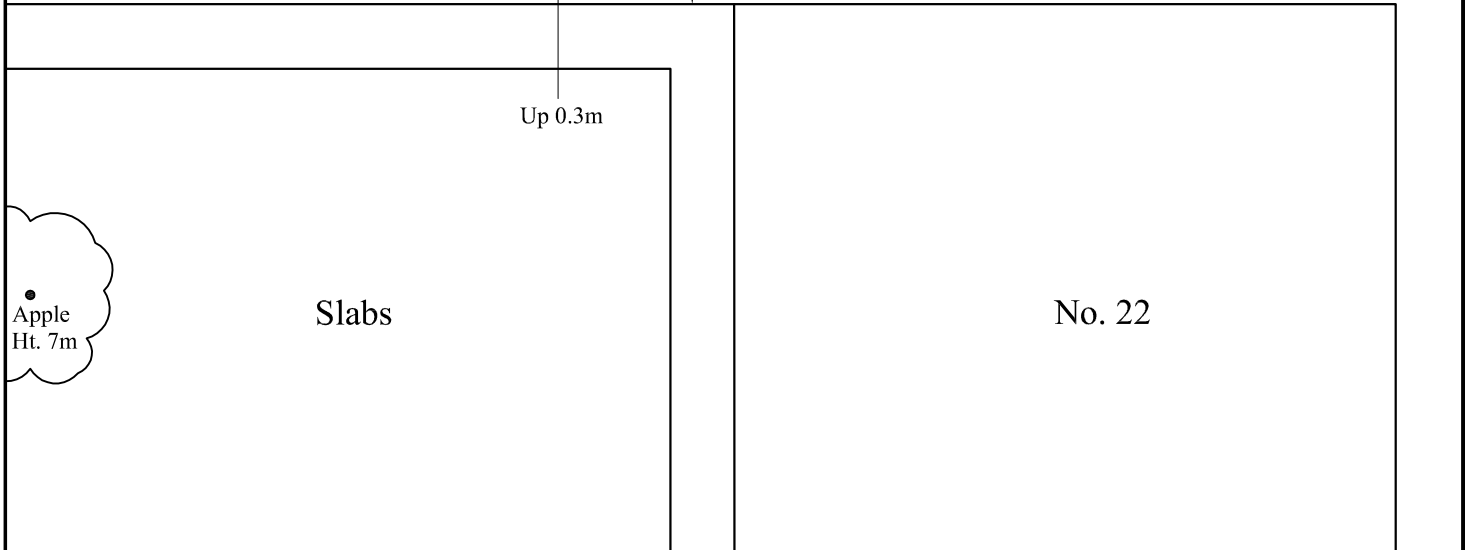
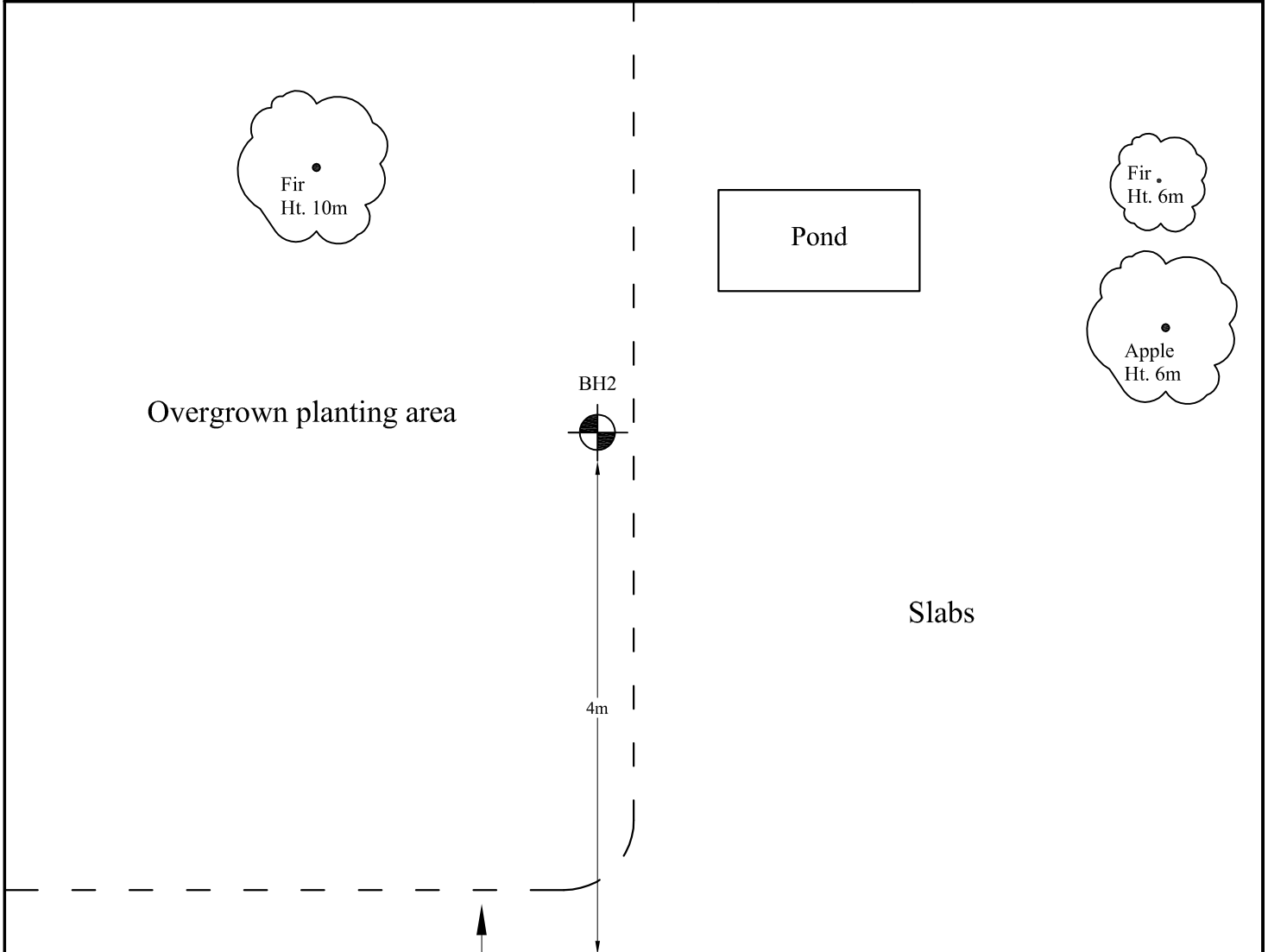
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Notes: On site tree identification for guidance only. Not authenticated.

Key:

-  Tree/Shrub
-  Borehole
-  Trial Pit
-  Gully
-  Tree Stump
-  Rain Water/
Soil Pipe
-  Manhole

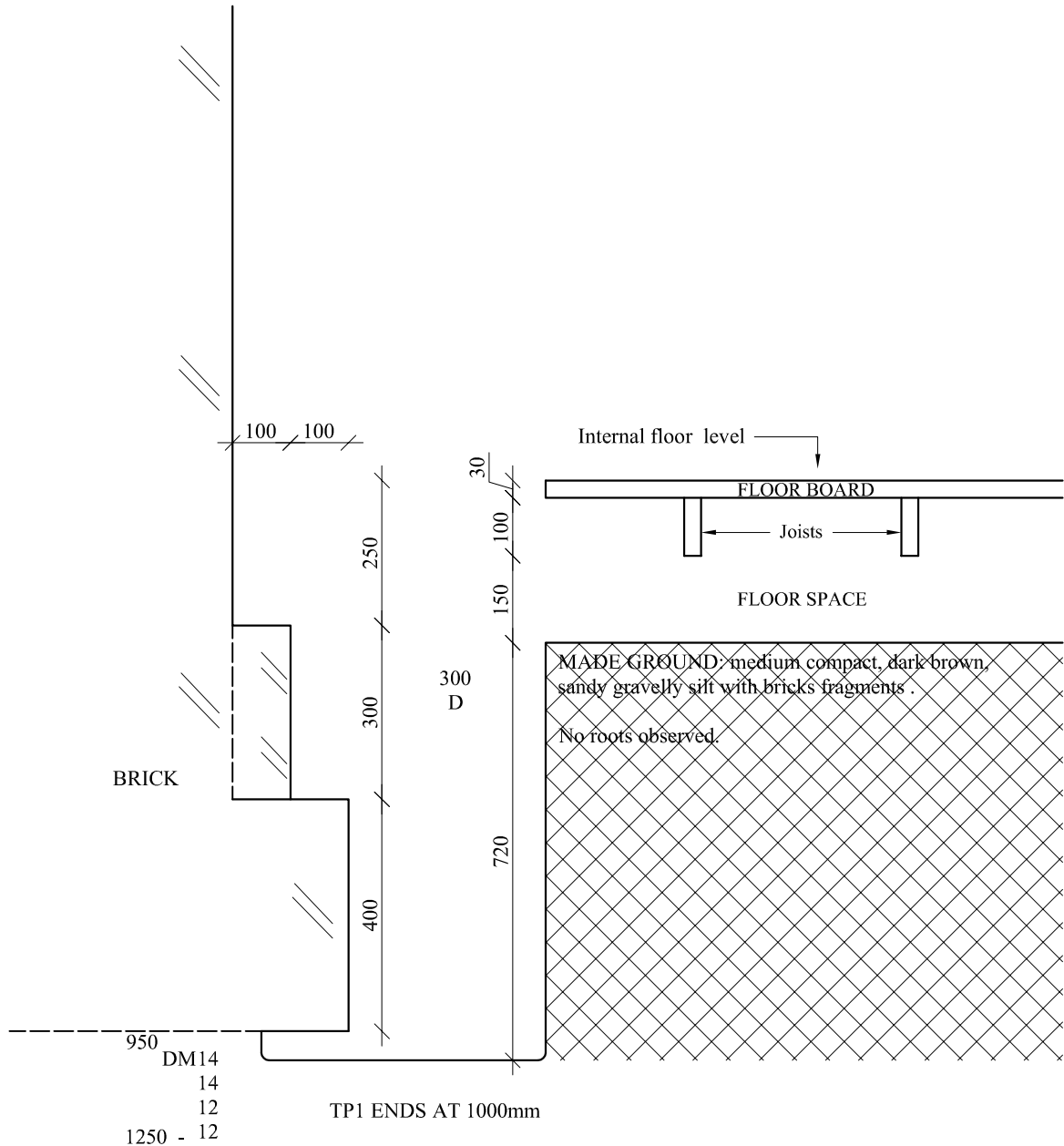
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Client: Green Structural Engineering Ltd	Scale: N.T.S.	Sheet No: 1 of 1	Date: 29.10.14
Location: 27 Aberdare Gardens, London NW6	Job No: 4916	Trial Pit No: 1	Weather: Internal
Excavation Method: Hand tools		Drawn by: JP	Checked by: ME



Remarks:

Key:

- | | |
|---|----------------------------|
| D Small disturbed sample | J Jar sample |
| B Bulk disturbed sample | V Pilcon Vane (kPa) |
| U Undisturbed sample (U100) | M Mackintosh Probe |
| N Standard Penetration Test Blow Count | W Water Sample |

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Depth Mtrs.	Description of Strata	Thick-ness	Legend	Sample	Test Type Result	Root Information	Depth to Water	Depth Mtrs		
Client: Green Structural Engineering Ltd		Scale: N.T.S.		Sheet No: 1 of 1		Weather: Overcast/Rain		Date: 29.10.14		
Site: 27 Abdare Gardens, London NW6		Job No: 4916		Borehole No: 1A		Boring method: CFA 100mmØ Secondman				
GL 0.03	SLAB	0.03								
0.1	CONCRETE	0.07	▽▽▽▽							
0.3	MADE GROUND: medium compact, dark brown, gravelly silty clay with brick fragments.	0.2	⊗	D		No roots observed.		0.25		
	Stiff, mid brown, grey veined, silty CLAY with partings of brown and orange silt and fine sand and claystone nodules.	3.8	⊗	D				0.5		
			⊗	D	V	94 96			1.0	
			⊗	D					1.5	
			⊗	D	V	96 96			2.0	
			⊗	D					2.5	
			⊗	D	V	122 124			3.0	
			⊗	D					3.5	
4.1				D	V	130+			4.0	
4.3			CLAYSTONE	0.2	—					
			Very stiff, brown, grey veined, silty CLAY with partings of brown and orange silt and fine sand, claystone nodules and crystals.	1.7	⊗	D				4.5
	⊗	D			V	130+ 130+			5.0	
	⊗	D							5.5	
6.0	Borehole ends at 6.0m			D	V	130+ 130+		6.0		
Drawn by: JP		Approved by: ME		Key: T.D.T.D. Too Dense to Drive D Small Disturbed Sample J Jar Sample B Bulk Disturbed Sample V Pilcon Vane (kPa) U Undisturbed Sample (U100) M Mackintosh Probe W Water Sample N Standard Penetration Test Blow Count						
Remarks: Borehole dry and open on completion. Plastic standpipe installed to 6.0m.										

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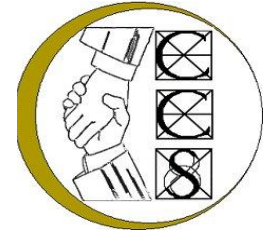
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Client: Green Structural Engineering Ltd		Scale: N.T.S.		Sheet No: 1 of 1		Weather: Rain		Date: 29.10.14	
Site: 27 Abdardare Gardens, London NW6		Job No: 4916		Borehole No: 2		Boring method: CFA 100mmØ Secondman			
Depth Mtrs.	Description of Strata	Thick-ness	Legend	Sample	Test Type Result	Root Information	Depth to Water	Depth Mtrs	
G.L.	TOPSOIL	0.2		D		No roots observed.		0.25	
0.2	MADE GROUND: medium compact, dark brown, gravelly silty clay with brick fragments.	0.6		D				0.5	
0.8	Stiff, mid brown, grey veined, silty CLAY with partings of brown and orange silt and fine sand and claystone nodules. Becoming very stiff from 3.8m.	5.2		D	V 94 96		3.3	1.0	
				D					1.5
				D				V 96 96	2.0
				D					2.5
				D				V 120 122	3.0
				D					3.5
				D				V 130+ 130+	4.0
				D					4.5
				D				V 130+ 130+	5.0
				D					5.5
6.0	Borehole ends at 6.0m			D	V 130+ 130+			6.0	
Drawn by: JP Approved by: ME Remarks: Groundwater seepage at 3.3m. Standpipe installed to 6.0m.		Key: T.D.T.D. Too Dense to Drive D Small Disturbed Sample J Jar Sample B Bulk Disturbed Sample V Pilcon Vane (kPa) U Undisturbed Sample (U100) M Mackintosh Probe W Water Sample N Standard Penetration Test Blow Count							

Landborne Gas Assessment

Site Ref: 4916
Site Name: 27 Aberdare Gardens, NW6 3AJ

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Well	Date	Methane Peak	Methane Steady	Methane GSV	Carbon Dioxide Peak	Carbon Dioxide Steady	Carbon Dioxide GSV	Oxygen	Atmos.	Flow	Response Zone	Depth to Water	CO	H2S
		%v/v	%v/v	l/hr	%v/v	%v/v	l/hr	%v/v	mbar	l/hr	m bgl	m bgl	ppm	ppm
BH1A	06/11/2014	0.1	0.1	-0.0001	0.1	0.1	-0.0001	20.9	1004	-0.1	1.00-6.00	0.83	0	0
	13/11/2014	0.1	0.1	-0.0005	0.1	0.1	-0.0005	21.0	1001	-0.5		0.82	0	0
BH2	06/11/2014	0.1	0.1	-0.0002	0.1	0.1	-0.0002	20.9	1004	-0.2	1.00-6.00	1.09	0	0
	13/11/2014	0.1	0.1	-0.0007	0.1	0.1	-0.0007	20.9	1001	-0.7		0.96	0	0

Notes

NR = Not recorded

Values in Bold exceed the CO₂ Building Regulations threshold (>1.5%)

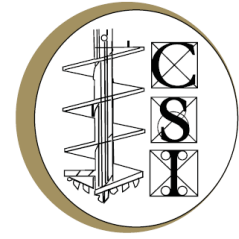
Values in Red exceed the Buildings Regulations Action Level (CO₂ >5.0% and CH₄ >1.5%)

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REPORT NOTES

Equipment Used

Hand tools, Mechanical Concrete Breaker and Spade, Hand Augers, 100mm/150mm diameter Mechanical Flight Auger Rig, GEO205 Flight Auger Rig, Window Sampling Rig, and Large or Limited Access Shell & Auger Rig upon request and/or access permitting.

On Site Tests

By Pilcon Shear-Vane Tester (Kn/m^2) in clay soils, and/or Mackintosh Probe in granular soils or made ground and/or upon request Continuous Dynamic Probe Testing and Standard Penetration Testing.

Note:

Details reported in trial-pits and boreholes relate to positions investigated only as instructed by the client or engineer on the date shown.

We are therefore unable to accept any responsibility for changes in soil conditions not investigated i.e. variations due to climate, season, vegetation and varying ground water levels.

Full terms and conditions are available upon request.