

GEOCORE

Site Investigations Ltd.

SITE INVESTIGATION FACTUAL REPORT

CLIENT: InFront Innovation

NAME: Harban

ADDRESS: The Gables, Carlton Road, Carlton, Barnsley, S71 3JD

CLIENT REF: IFS-RBS-SUB-11-0031530

OUR REF: HH/12/54115

**THE
HOLE
STORY**

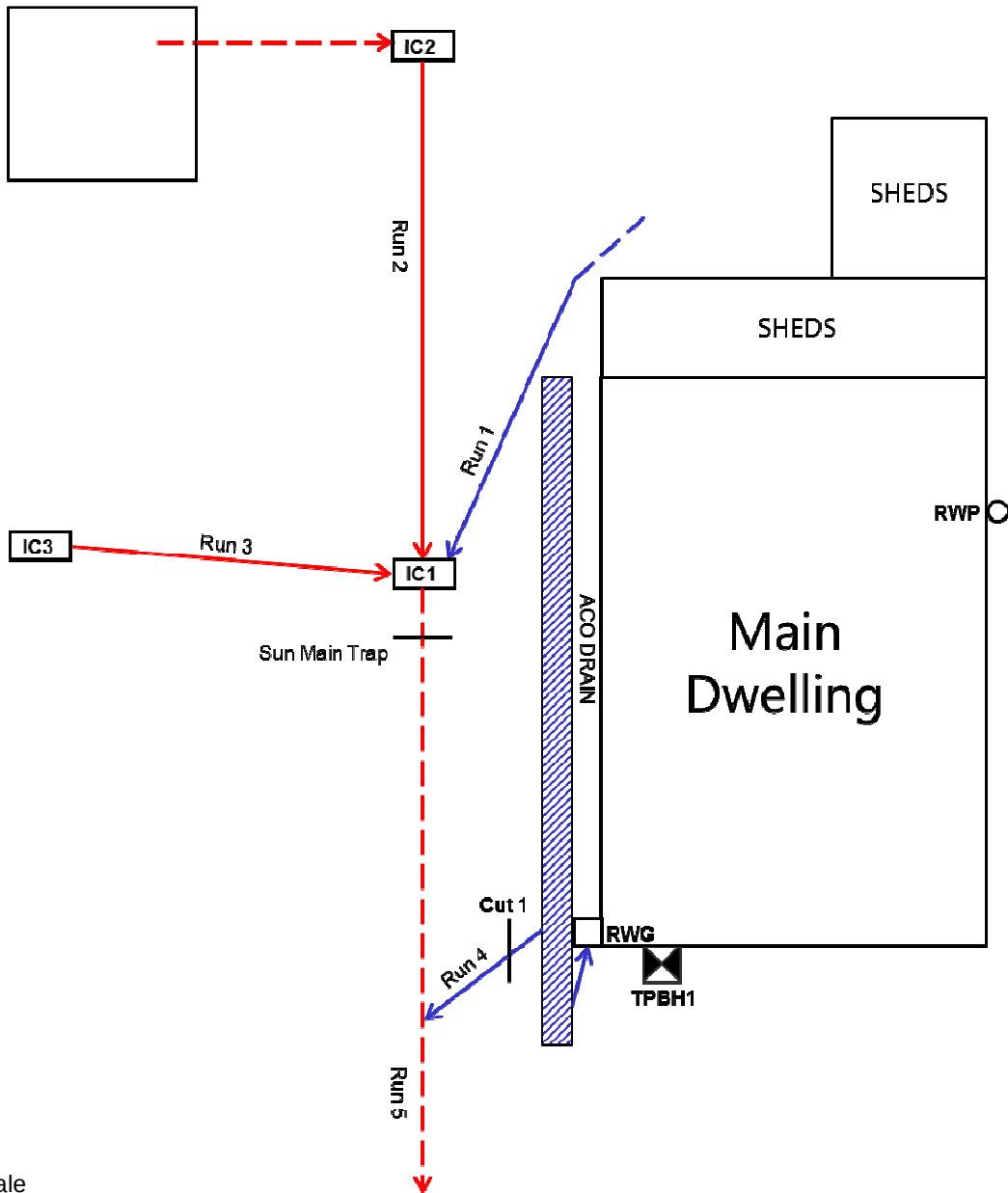
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M 07778 019665
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W www.geocore.co.uk



SITE AND DRAINAGE LAYOUT

Site Crew: M.T/M.W

Date: 20/02/2012



Not to scale

General Comments:

Key: =RWGully =RWPipe =FWGully =W/C or S.V. pipe =Rodding Eye =Surveyed pipe indicating flow =Unsurveyed pipe =E/H=Exploratory Hole (hand dug pit and/or hand auger) or M/A=Mechanical Auger =Hedge or Shrub =Trees =Boundary line

Address: The Gables, Carlton Road, Carlton, Barnsley, S71 3JD

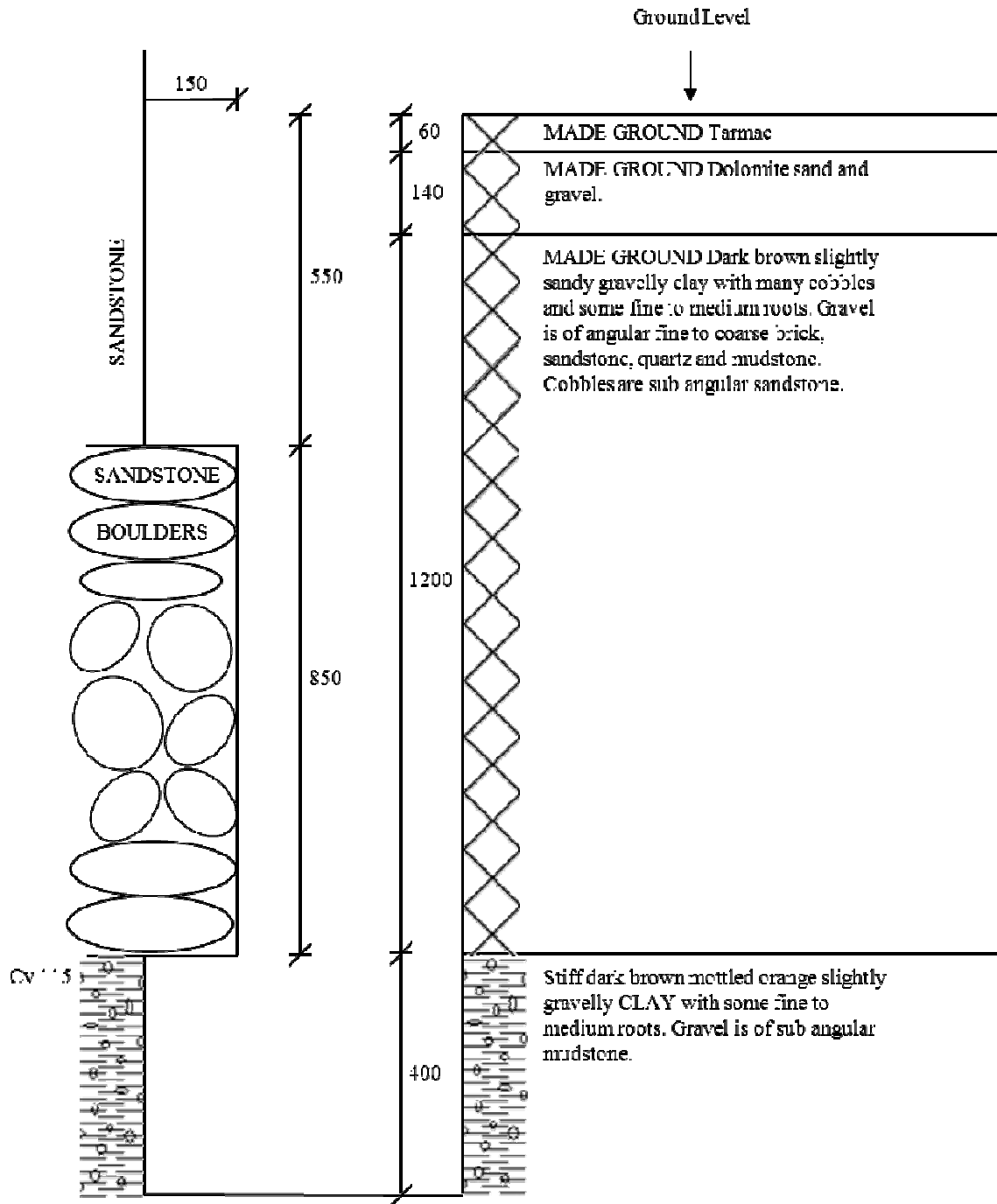
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FOUNDATION PIT RECORD

Trial Pit Number: 1

Date: 20/02/2012



For strata information below 1.8m, please refer to borehole log TPBH1.

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BOREHOLE LOG

Geocore Site Investigations Ltd



Location The Gables, Carlton Road, Carlton Road, Carlton, Barnsley, S71 3JD				BOREHOLE No TPBH1
Job No HH/12/54115	Date 20-02-12	Ground Level (m)	Co-Ordinates ()	
Client Infront Innovation				Sheet 1 of 1

SAMPLES & TESTS			Water	STRATA				Instrument Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	
1.40 1.40	D1 ROOTS	115KPa@1.4m				(1.80) 1.80	Trial Pit. Base of foundation at 1.4m.	
1.90	D2	125KPa@1.9				(0.30) 2.10	Stiff light brown very gravelly CLAY with some fine to medium roots. Gravel is of sub angular mudstone.	
2.40	D3	130+KPa@2.4m				(0.60) 2.70	Stiff dark brown mottled orange highly weathered MUDSTONE.	
2.80	D4	130+KPa@2.8m				2.80	Stiff orange brown weathered MUDSTONE.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											Borehole terminated at 2.8m due to refusal. Excavation remained open and dry on completion. Roots identified between 1.4m - 2.1m.
All dimensions in metres Scale 1:31.25			Client Engineer Afzal Ahmed			Method/ Plant Used H.H Window Sampler			Logged By M.Turner		

GEOCORE BH 54115.GPJ AUGUST 768.GPJ 73/12

Moisture/Depth Profile Ref: HH/12/54115
TP/BH1

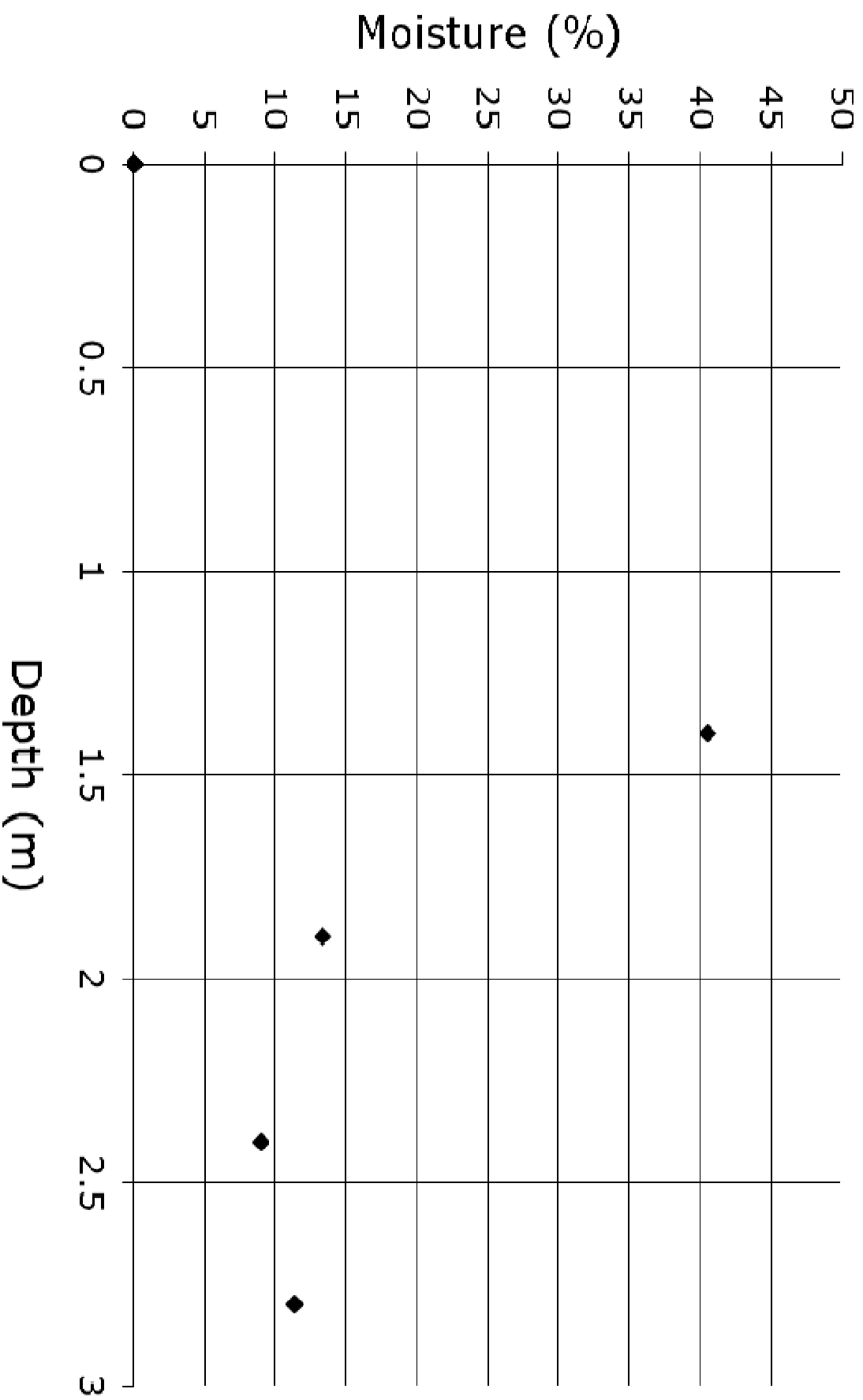


Table 1

Client ref: IFS-RBS-SUB-11-0031530

Our ref: HH/12/54115

Location: The Gables, Carlton Road, Carlton, Barnsley, S71 3JD

TP/ BH	Depth (m)	Insitu M.C. %	% Passing BS425 Sieve %	Corrected M.C. %	Plastic Limit %	Liquid Limit %	Plasticity Index %	Soil Classification
1	1.40	40.5	94.9	42.7	32.1	78.94	46.84	CV
	1.90	13.3						
	2.40	9						
	2.80	11.4						

Testing carried out in accordance with BS1377: Parts 1 & 2 : 1990

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RUN: 1	PIPE DIA.: 100mm	SYSTEM: Surface Water		MADE OF: VC
FROM: IC1	INV (M): 1.21m	DIRECTION: Upstream	TO: Upstream	INV (M):
METRES	FAULTS/DEFECTS		REMARKS	
0.0	Start of survey		Leave IC1 High-level incomer	
0.0	Water level 0% Right hand bend			
0.4	Pipe broken 12 o'clock to 12 o'clock		Missing	
0.7	Survey Abandoned		Probable 50mm land-drain or vent pipe Probably redundant	

RUN: 2	PIPE DIA.: 100mm	SYSTEM: Combined		MADE OF: VC/Lined
FROM: IC1	INV (M): 1.21m	DIRECTION: Upstream	TO: IC2	INV (M):
METRES	FAULTS/DEFECTS		REMARKS	
0.0	Start of survey		Leave IC1	
0.0	Water level 0%			
0.6	Debris 30% continues to end			
2.4	Enter IC2			
2.4	End of survey			

RUN: 3	PIPE DIA.: 100mm	SYSTEM: Combined		MADE OF: VC
FROM: IC1	INV (M): 1.21m	DIRECTION: Upstream	TO: IC3	INV (M):
METRES	FAULTS/DEFECTS		REMARKS	
0.0	Start of survey		Leave IC1	
0.0	Water level 25%			
1.0	Left hand bend Water level 10%			
4.1	Joint displaced Slight Debris 20% continues to 5.4m			
5.4	Survey Abandoned		Limit of survey requirement	

RUN: 4	PIPE DIA.: 100mm	SYSTEM: Combined		MADE OF: VC
FROM: Cut 1 (RWG1)	INV (M):	DIRECTION: Upstream	TO: Upstream	INV (M):
METRES	FAULTS/DEFECTS		REMARKS	
0.0	Start of survey		Leave Cut 1 just below RWG1	
0.0	Water level 0%			
0.3	Survey Abandoned		On collapsed pipe	

RUN: 5	PIPE DIA.: 100mm	SYSTEM: Combined		MADE OF: VC
FROM: Cut 1 (RWG1)	INV (M):	DIRECTION: Downstream	TO: Downstream	INV (M):
METRES	FAULTS/DEFECTS		REMARKS	
0.0	Start of survey		Leave Cut 1	
0.0	Water level 0%			
0.8	Intersection with Main		From IC1	
0.8	Water level 10%			
1.9	Change in material to VC/Lined pipe			
13.4	Survey Abandoned		Limit of survey requirement	

Survey Report

The property is served by a combined system, two lengths of which have already been lined (now Water Authority drains).

Run 1, a high-level pipe into IC1, was probably redundant, and has been an old land-drain or vent pipe.

The section immediately downstream of IC1 is a Windsor trap with no rodding eye or access, hence there is a 6 metre section un-surveyed.

Run 3 was structurally alright, although flat gradients have allowed paper deposits etc. to accumulate.

The only run with defects was Run 4, where the RWG appears to have collapsed, or is broken, immediately under the new ACO drain.

Recommendations

Run 4: Replace RWG1 and connect ACO connection into it.

Quotation

(Run 4)

Replace RWG1:	74-00
Replace first 0-2 metres of pipe:	187-00
E.O. to add ACO junction:	93-00
Replace 3m ² of asphalt surface:	78-00
	<u>432-00</u>

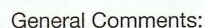
Total Quotation:

£432-00

(Minimum Charge: £685-00)

Site Crew: M. TURNER / M. WALKER REAR

Date: 20/02/12



Run 1 POSS DISUSED AS LOOKS
SILTED + DAMAGED

'TOISm

- Key: = RWGully = RWPipe = FWGully = W/C or S.V. Pipe = I.C.
 = Rodding Eye = Surveyed Pipe indicating flow = Unsurveyed Pipe
 = E/H = Exploratory Hole (hand dug pit and/or auger) or M/A = Mechanical Auger Hole
 = Hedge or Shrub = Trees = Boundary Line

Address: THE CABLES (COTTAGE), CARLTON RD, BARNSELEY, S71 3JD

Geocore Ref: 54115

Client Ref: 0031530 - HARBAW - IN FRONT

Richardson's Botanical Identifications

Root identification
Vegetation surveys
Tree/Building investigations
Plant taxonomy

Geocore Site Investigations Limited

**Tralee Close
Kirkleatham Business Park
REDCAR**

Cleveland TS10 5SG

29/02/2012

Dr Ian B K Richardson
BSc, PhD, CBIol, MiBIol, MiHort, FLS

James Richardson
BSc (Hons. Biology)

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Web: www.botanical.net

Your ref: **HH-12-54115**

Our ref: 71/9402

Dear Sirs

The Gables, Carlton Road, Carlton S71 3JD

The samples you sent in relation to the above on 20/02/2012 (received by us on 23/02/2012) have been examined. The structure was referable as follows:

TP/BH1, 1.4-2.1m

1 root: FRAXINUS (Ash). 13 further roots, not examined in detail appeared similar under low magnification. Alive, recently*.

1 root: essentially too thin and immature for a confident identification although similar in some ways to ACER (Maples, Sycamores). Alive, recently*.

4 roots: unfortunately insufficient cells for identification.

I trust this is of help. Please call us if you have any queries; our Invoice is enclosed.

Yours faithfully

Dr Ian B K Richardson

* Based mainly on the Iodine test for starch. Starch is present in some cells of a living woody root, but is more or less rapidly broken down by soil micro-organisms on death of the root, sometimes before decay is evident. This result need not reflect the state of the parent tree.

Identified with no information on vegetation, on or off site.