

GEOCORE

Site Investigations Ltd.

SITE

INVESTIGATION FACTUAL REPORT

CLIENT: B Maule & Co Ltd
NAME: Sims
ADDRESS: Oak Tree House, Wood Lane, Ruislip, HA4 3EY
CLIENT REF: 20206310
OUR REF: HH/20/65759



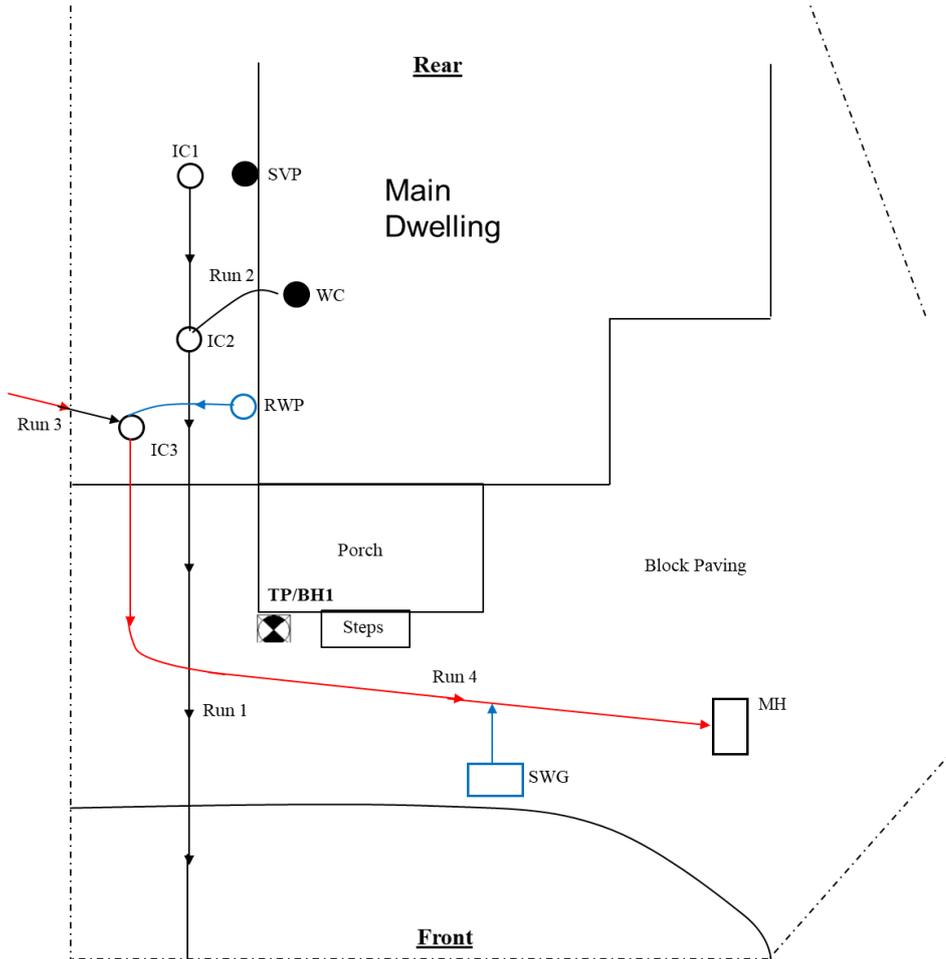
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Tralee Close Kirkleatham Business Park Redcar Cleveland TS10 5SG

Managing Director: Adam Woodhead MBA, BSc (Hons) FGS
Company Registration No. 4042825 VAT Registration No. 708 6835 09

SITE AND DRAINAGE LAYOUT

Site Crew:	J Dickinson & R Mortell	Date:	15th October 2020
Address:	Oak Tree House, Wood Lane, Ruislip, HA4 3EY		
Geocore Ref:	HH/20/65759	Client Ref:	20206310

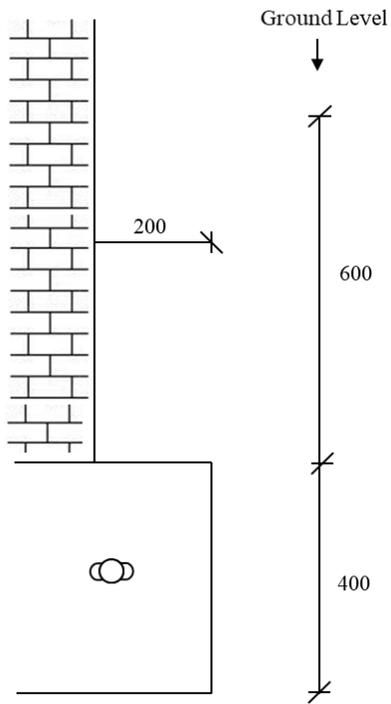


General Comments: TPBH1 relocated to new position due to the presence of drains as agreed by the engineer.

Key:	=RWGully	=RWPipe	=FWGully	=W/C or S/V pipe	=Inspection Chamber
	=Rodding Eye	=Surveyed pipe indicating fall	=Unsurveyed pipe		
	=E/H=Exploratory Hole (hand dug pit and/or window sample)				
	=Hedge or Shrub	=Tree	=Boundary line		

FOUNDATION PIT RECORD

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Trial Pit No: 1			



For strata information, please refer to borehole log TPBH1.



BOREHOLE LOG RECORD

Site Crew:	J Dickinson & R Mortell	Date:	15th October 2020
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Borehole No: 1			

GEOCORE <small>The Assessment People Ltd</small>		BOREHOLE LOG		<small>Geocore Site Investigations Ltd Tralee Close, Kirkleatham Bus Pk Redcar, TS10 5SG Telephone: 01642 481144</small>							
Location Oak Tree House, Wood Lane, Ruislip, HA4 6EY					BOREHOLE No TP/BH1						
Job No HH/20/65759	Date 15-10-20	Ground Level (m)	Co-Ordinates ()								
Client B Maule & Co Ltd					Sheet 1 of 1						
SAMPLES & TESTS			STRATA								
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	Instrument/Backfill			
1.00	HV ROOTS D1	60 kPa @ 1.0m				(0.20) 0.20	MADE GROUND Crazy paving.				
1.00-2.00						(0.55)	MADE GROUND Brown slightly clayey slightly gravelly coarse sand with occasional cobbles. Gravel is of fine to coarse angular to sub angular brick, quartz and flint. Cobbles are of angular brick.				
1.10						0.75	Soft becoming stiff with depth brown slightly sandy CLAY.				
1.40	HV	140 kPa @ 1.4m				(1.65)	BASE OF FOUNDATION 1.0m				
1.60	D2										
1.90	HV	130 kPa @ 1.9m									
2.10	D3										
2.40	HV	150+ kPa @ 2.4m				2.40					
Boring Progress and Water Observations			Chiselling			Water Added		GENERAL REMARKS			
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To		Hours	From	To
											Borehole terminated at 2.4m. Excavation remained open with standing water at 2.2m.
All dimensions in metres Scale 1:18.75			Client Engineer Patrick Porterfield			Method/ Plant Used III WINDOW SAMPLER		Logged By J.Dickinson			

GEOCORE BH 65759.GPJ AUGUST 788.GPJ 19/11/20

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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

02/11/2020

Dr Ian B K Richardson
BSc, MSc, PhD, MRSB, FLS

James Richardson
BSc (Hons. Biology)

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49-51 Whiteknights Road
Reading
RG6 7BB

Tel: (0118) 986 9552 *(Direct line)*

E-mail: richardsons@botanical.net

Web: www.botanical.net

Your ref: **65759**

Our ref: 80/8110

Dear Sirs

Oak Tree House, Wood Lane, Ruislip HA4 6EY

The samples you sent in relation to the above have been examined. Their structures were referable as follows:

TP/BH1, 1.0-2.0m

1 root: QUERCUS (Oak). 10 further samples, not examined in detail appeared similar under low magnification. Alive, recently*.

1 root: too DECAYED for identification.

1 sample: although examined microscopically, this was found to be only a section of either twig, stem or sucker - NOT a root. Not identified.

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.

** Try out our web site on www.botanical.net **



CCTV SURVEY DETAILS

Site Crew:	J Dickinson & R Mortell	Date:	15th October 2020
Address:	Oak Tree House, Wood Lane, Ruislip, HA4 3EY		
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Run: 1	Dir: D/S	Pipe Dia(mm):	100	System:	C/W	Made Of:	PVC
From:	I/C1	Inv(m):	0.36	To:	IC2 & LSR	Inv(m):	n/a
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL 0%						
1.86	MH						I/C2
12.98	WL 0%						
12.98	FH					Grade 1	Main sewer in road
Run: 2	Dir: U/S	Pipe Dia(mm):	100	System:	F/W	Made Of:	PVC
From:	I/C2	Inv(m):	0.4	To:	WC Downstairs	Inv(m):	n/a
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL 0%						
0.2	LL						
1.9	WL 0%						
1.9	FH					Grade 1	Rest bend
Run: 3	Dir: U/S	Pipe Dia(mm):	100	System:	S/W	Made Of:	PVC
From:	I/C3	Inv(m):	0.55	To:	LSR	Inv(m):	n/a
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	Start						
0	Water level 0% height/diameter.						
0.1	LU						
0.3	LR						
3	FH: At Limit of survey requirement					Grade 1	Off boundary

Key: I/C=Inspection Chamber, Inv=Invert, RWG=Rainwater Gully, FWG=Foul Water Gully, CWG = Combined Water Gully



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Run: 4	Dir: D/S	Pipe Dia(mm):	100	System:	S/W	Made Of:	PVC
From:	I/C 3	Inv(m):	0.55	To:	I/C on driveway	Inv(m):	N/A
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL 0%						
1.55	LL						
3.8	WL 20%						
4.3	CU						CCTV under water
5.6	WL 0%						
11.5	FH					Refer to notes	I/C on driveway away from area of damage

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SURVEY NOTES

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The property is served by a separate foul and surface water system.

Run 1 I/C1 downstream to main sewer in the road. No defects identified.

Run 2 I/C2 upstream to W/C. No defects identified.

Run 3 I/C3 upstream to manhole off the boundary. No defects identified. The Policy Holder does not derive any benefit from this drain run. Water authority asset.

Run 4 I/C3 downstream to manhole on driveway. There is a small section of pipe at 3.8 to 5.4 metres that the cctv temporarily loses vision due to a belly in the pipe. This section is showing no signs of leaking. No structural defect found. The drain run is shared and therefore a water authority asset.



RECOMMENDATIONS

Site Crew:	J Dickinson & R Mortell	Date:	15th October 2020
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There are no further recommendations required for the drains.

Condition Grades for Clayware, Concrete and Plastic Sewer Pipes	
Internal Condition Grade (ICG)	Typical Defect Descriptions
5	Already collapsed Deformation >10% and broken Extensive areas of fabric missing Fracture with deformation >10%
4	Broken Deformation >10% and broken Fracture with deformation 6-10% Multiple fracture Serious loss of level Serious joint defects with voids or soil visible (open joint with >50mm soil or void visible or joint displacement >25% of diameter) Surface damage - spalling large (entire surface of brick missing) Surface damage - wear large (entire surface of brick missing)
3	Fracture with no deformation or deformation <5% Longitudinal cracking with or multiple cracking Minor loss of level Severe joint defects, ie open joint (large) or displaced joint (large) Surface damage - spalling medium (large areas of chipped brick) Surface damage - wear medium (entire surface of brick missing)
2	Circumferential crack Moderate joint defects, ie open joint (medium) or displace joint (medium) Surface damage - spalling slight (small fragments breaking away from surface) Surface damage - wear slight (increased roughness)
1	No or slight structural defects
Note	Deformed sewers that have subsequently been relined with a structural lining can normally be considered to have no deformation

DRAINAGE CODES			
Code	Description	Code	Description
B	Broken pipe at (or from to) o'clock	JN	Junction at o'clock, diameter mm
CC	Crack circumferential from to o'clock	JX	Junction defective at o'clock, diameter mm
CL	Crack longitudinal @ o'clock	LC	Lining of sewer changes/starts/finishes at this point
CM	Cracks multiple from to o'clock	LD	Line of sewer deviates down
CN	Connection at o'clock, diameter mm	LL	Line of sewer deviates left
CNI	Connection at o'clock, diameter mm, intrusion mm	LR	Line of sewer deviates right
CU	Camera under water	LU	Line of sewer deviates up
CX	Connection defective at o'clock	MC	Material of sewer changes at this point
D	Deformed sewer %	MH	Manhole/node
DC	Dimension of sewer changes at this point	OB	Obstruction % height/diameter loss
DE	Debris (non silt/grease) % cross-sectional loss	OJL	Open joint large
DEG	Debris grease % cross sectional area loss	OJM	Open joint medium
DES	Debris silt % cross-sectional area loss	RFJ	Roots fine (at joint)
FC	Fracture circumferential from to o'clock	RMJ	Roots mass % cross-sectional area loss (at joint)
FL	Fracture longitudinal at o'clock	RTJ	Roots tap (at joint)
FM	Fractures multiple from to o'clock	SA	Survey abandoned
GO	General observation at this point	WL	Water level % height/diameter
H	Hole in sewer at o'clock	X	Sewer collapsed % cross-sectional area loss
JDM	Joint displaced medium	FH	End of survey
JDL	Joint displaced large		

GEOCORE

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WINDOW
SAMPLING



CHAPTER 1

DOMESTIC
SUBSIDENCE
INVESTIGATIONS



CHAPTER 2

WINDOWLESS
SAMPLING



CHAPTER 3

THE HOLE STORY

CABLE
PERCUSSION
DRILLING



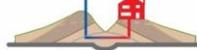
CHAPTER 4

ROTARY
DRILLING



CHAPTER 5

GROUND
SOURCE
DRILLING



CHAPTER 6

CCTV DRAIN
SURVEYS



CHAPTER 7