

GEOCORE

Site Investigations Ltd.

SITE

INVESTIGATION FACTUAL REPORT

CLIENT: Davies Group

NAME:

ADDRESS: 46 West Park Street, Dewsbury, WF13 4LD

CLIENT REF: 72126981

OUR REF: HH/21/68187

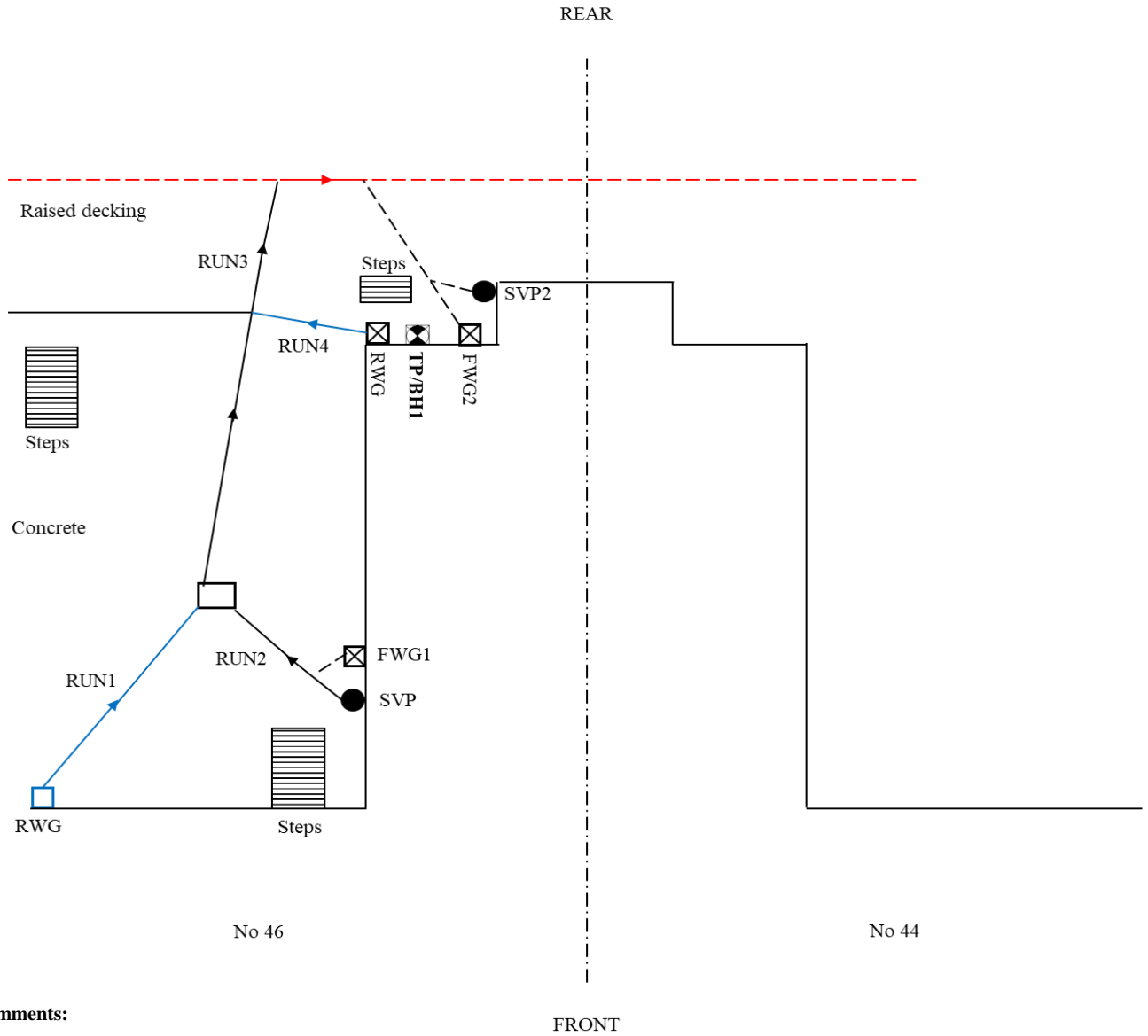


Tralee Close Kirkleatham Business Park Redcar Cleveland TS10 5SG
T 01642 481144 F 01642 498419 M 07778 019665 E geocore@geocore.co.uk W www.geocore.co.uk

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

SITE AND DRAINAGE LAYOUT

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981

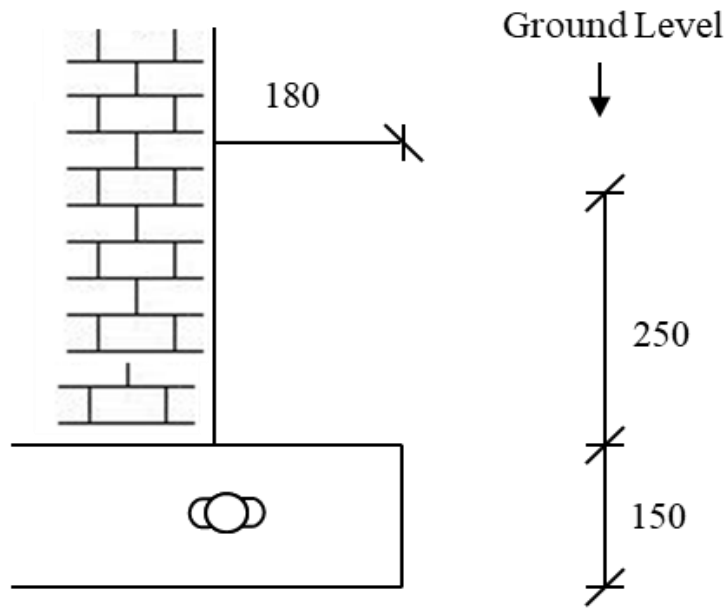


General Comments:

=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

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981
Trial Pit No: 1			



For strata information, please refer to borehole log TPBH1.



BOREHOLE LOG RECORD

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981
Borehole No: 1			

		BOREHOLE LOG		Geocore Site Investigations Ltd Tralee Close Bus PK Redcar TS10 5SG Telephone: 01642 481144							
Location 46 West Park Street, Dewsbury, WF13 3LD					BOREHOLE No TP/BH1						
Job No HH/21/68187	Date 13-01-22	Ground Level (m)	Co-Ordinates ()		Sheet 1 of 1						
Client Davies											
SAMPLES & TESTS			STRATA								
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION	Instrument/Backfill			
0.50	HV D1	62kPa@0.5m	Water			0.05	MADE GROUND Concrete.	Instrument/Backfill			
0.50					(0.30)	MADE GROUND Dark brown, sandy, slightly gravelly clay with occasional fine roots. Gravel is of fine to medium, sub-angular to sub-rounded brick and concrete.					
1.00	HV	113kPa@1.0m	Water			0.35	Firm to stiff, light brownish grey, slightly sandy CLAY. BASE OF FOUNDATION AT 0.4m.	Instrument/Backfill			
1.20					(0.90)						
	D2		Water			1.25		Instrument/Backfill			
					1.30	Greyish brown, highly weathered MUDSTONE.					
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 1.3m due to refusal as agreed with engineer. Excavation remained open and dry on completion.
All dimensions in metres Scale 1:12.5			Client Engineer Ellis Associates			Method/ Plant Used HH Window Sampler			Logged By J. Bell		

GEOCORE BH_68187.GPJ AUGUST 7 68 11/2/22



HEAVE

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981

Moisture content values in TP/BH1 are approaching both the plastic limit and 40% of the Liquid limit. It is therefore likely that the ground has attained desiccation in this area. Oedometer strain test results are indicative of this showing potential heave of 14mm

CCTV SURVEY DETAILS

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981

Run: 1	Dir: U/S	Pipe Dia(mm):	100	System:	S/W	Made Of:	V/C
From:	I/C1	Inv(m):	0.7	To:	RWG1	Inv(m):	0.3
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL						
1.78	LU						
2.4	JDM					Grade 2	
2.4	FH						RWG1
Run: 2	Dir: U/S	Pipe Dia(mm):	100	System:	F/W	Made Of:	V/C
From:	I/C1	Inv(m):	0.7	To:	SVP	Inv(m):	0.4
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL 0%						
0.16	CC					Grade 2	11 o'clock to 2 o'clock
0.8	JN: At 11 o'clock						FWG 1
1.62	RB						
2	FH						Top of rest bend
Run: 3	Dir: D/S	Pipe Dia(mm):	100	System:	C/W	Made Of:	V/C
From:	I/C1	Inv(m):	0.7	To:	Main sewer	Inv(m):	1.3
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL						
2.7	JN: At 3 o'clock						Run 4
5	LD						
6.2	FH						Main sewer
Run: 4	Dir: D/S	Pipe Dia(mm):	100	System:	C/W	Made Of:	V/C
From:	CWG1	Inv(m):	0.3	To:	Intersection Run 3	Inv(m):	0.8
Metres	Faults/Defects					Internal Condition Grade (ICG)	Remarks
0	ST						
0	WL 0%						
0.2	LD vertical						
0.88	RB						
0.88	GO						Drain levels out
0.99	FH						Intersection Run 3

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



SURVEY NOTES

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981

Operatives carried out a CCTV survey on all accessible drains.

Run 1: I/C1 upstream RWG1

The only defect was a JDM where the gully joins the drain run.

Run 2: I/C1 upstream SVP

A defect was noted at 0.16m upstream of I/C1. No further defects observed.

Run 3: I/C1 downstream main sewer

No defects identified.

Run 4: CWG downstream intersection Run 3

No defects identified.

FWG 1 and FWG 2 were both partially blocked. Operatives were unable to thread the camera around the traps.



RECOMMENDATIONS

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022
Address:	46 West Park Street, Dewsbury, WF13 4LD		
Geocore Ref:	HH/21/68187	Client Ref:	72126981

Item 1: Run 1: I/C1 upstream RWG1

Excavate gully and upto 1m of pipe.

Item 2: Run 2: I/C1 upstream SVP

Install a patch liner for first meter.

Item 3: FWG1, FWG2 and SVP2

Isolated excavations for access to FWG 1, FWG 2

High pressure water clean and CCTV.

Excavate SVP2 Rest bend and up to 1m of pipe.

Report findings from site to Client with a view to undertake any further repairs from site subject to CCTV findings and authorisation.



QUOTATION

Site Crew:	Jonathan Bell & Sam Hodgson	Date:	13th January 2022		
Address:	46 West Park Street, Dewsbury, WF13 4LD				
Geocore Ref:	HH/21/68187	Client Ref:	72126981		
Item	Description	No	Unit	Rate	Total
Item 1	Run 1: I/C 1 upstream to RWG				
	CAT and Genny service detection (All excavations on site)				£140.00
	Excavate and replace the gully				£100.00
	Excavate and replace up to 1 metre of pipe				£93.00
	E.O for waste disposal				£65.00
	E.O for band seals x 2				£50.00
	Reinstatement				£40.00
				TOTAL	£488.00
Item 2	Run 2: I/C 1 upstream to the SVP				
	Install patch repair				£260.00
				TOTAL	£260.00
Item 3	FWG 1, FWG 2 and SVP				
	Excavate and replace up to 1 metre of pipe per gully				£186.00
	Excavate and replace the rest bend for SVP 2				£93.00
	E.O for waste disposal x 2				£130.00
	High pressure water clean and CCTV				£280.00
	E.O for band seals x 2				£50.00
	E.O for bends x 4				£48.00
	Reinstatement x 2				£80.00
				TOTAL	£867.00
NOTES:				Sub Contract Value	£1,615.00
				Minimum Charge	£685.00
				VAT at 20%	£323.00
				Grand Total	£1,938.00

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

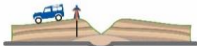
DRAINAGE CODES			
Code	Description	Code	Description
B	Broken pipe at (or from to) o'clock	JN	Junction at o'clock, diameter mm
CC	Crack circumferential from to o'clock	JX	Junction defective at o'clock, diameter mm
CL	Crack longitudinal @ o'clock	LC	Lining of sewer changes/starts/finishes at this point
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

Site Investigations Ltd.



WINDOW
SAMPLING



CHAPTER 1

DOMESTIC
SUBSIDENCE
INVESTIGATIONS



CHAPTER 2

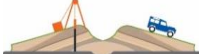
WINDOWLESS
SAMPLING



CHAPTER 3

THE HOLE STORY

CABLE
PERCUSSION
DRILLING



CHAPTER 4

ROTARY
DRILLING



CHAPTER 5

GROUND
SOURCE
DRILLING



CHAPTER 6

CCTV DRAIN
SURVEYS



CHAPTER 7

Hex ID: 00D10C3B

Email Date: 02/03/2022 14:30:05

Email From: Geocore Geocore <geocore@geocore.co.uk>

Email Subject: FW: DPMS Ref: 72126981 - Mr Hussain - HH/21/68187

Email To: "post.dsau@davies-group.com" <post.dsau@davies-group.com>

Email Cc: N/A