CCTV Survey Report Prepared For:

TK Internatational
16-18 heath street
Hampstead
London



11 briardale gardens - CCTV Survey Report : 09/01/19

Name: PREMIER DRAINAGE SERVCIES UK LTD

Contact:

Location : heartfordshire
Town : stevenage

Region:

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Client Information

Name: TK Internatational

Contact:

Location: 16-18 heath street

Town: Hampstead
Region: London
Postcode: NW3 6TE

Tel:
Mobile:
Email:
Fax:

Site Information

Name:

Contact:

Location: 11 Briardale Gardens

Town: london

Region:

Postcode: NW3 7PN

Tel:
Mobile:
Email:
Fax:

Total grades for project

Grade 1 Defects 0 Grade 2 Defects 2 Grade 3 Defects 15 Grade 4 Defects 1 Grade 5 Defects 1

Report Interpretation

Overview

Each section of the drainage system is allocated a score indicating areas that require attention. These areas are detailed in the overview section. We use colour coding as an additional indicator of severity. Additional information concerning rehabilitation is also included in this area. This can be used as an 'at a glance' indication of condition.

Grade A: Drain is serviceable, no recommendations required.

Grade B: There is an issue that might require remedial works.

Grade C: There is a defect that requires remedial works. The drain us not serviceable.

Observations

Each section of drainage reported on (manhole to manhole for example) contains header information about that drain. Any observations made concerning condition are then detailed below the header section.

The observations are colour coded and given a graded score. More significant defects are given a higher score, using a scale from 1 to 5.

Grade 1-2: These defects may require remedial repair or monitoring.

Grade 3-4: These defects probably require some form of remedial works.

Grade 5: Defects that will require remedial repair or replacement.

Images of individual defects are attached to each section.

The information provided is relevant to the time of survey. The coding system used for this report is based on the MSCC5 domestic codes (BS 13508, the standard for the drainage industry). The grading system is based on the Drainage Repair Book recommendations provided by the WrC. The total number of graded defects for the project are detailed at the bottom of each page.

Overview

Section: 1 From: MH1 To: MH2	Grade A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Combined
Section: 2 From: MH1 To: up stream	Grade A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Combined
Section: 3 From: MH1 To: BR 1	Grade A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Combined
Section: 4 From: MH1 To: BR 2	Grade A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Combined
Section: 5 From: MH2 To: Main	Grade A	DRB Grade: A Pipe Size: 150 Material: Vitrified Clay (i.e. all clayware) Use: Combined
Section: 6 From: MH2 To: BR 1	Grade A	DRB Grade: A Pipe Size: 100 Material: Vitrified Clay (i.e. all clayware) Use: Combined

Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects	1 Grade 5 Defects	1
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Section 1

Cli	ient:	Location (St	reet l	Name):	City/T	own/Village	Cus	t Job Ref.	Surveyors	Name	:	Date	э:
TK Interr	natational	11 Briardal	e Gai	rdens	lo	ondon			Jaso	n		09/01/2	2019
Start Node F	Ref:	Ŋ	MH1	Finish N	ode Ref:			MH2	Direction:	D	Heig	ht/Dia:	100
Start Node [Depth:	700	0.00	Finish N	ode Depth:			1,800.00	Use:	С	Sha	pe:	С
Start Node (Coordinate:			Finish N	ode Coordi	nate:			Material:	VC	Clea	ined	Ν
		1					1						
Drain Type	Lining Type	Lining Mat.	Yea	r Const.	Weather	Flow Cont.	Length		Ren	narks			
А					D	N	15.9						

Position	Code	Description	CD	Pic	Grade 0m
00.00m	МН	Start node type, manhole			0 —//
00.00m	WL	Water level 0%			0 —//
01.80m	JDL	Joint displaced large		0_2	3
03.80m	JDL	Joint displaced large		0_3	3
04.40m	JDL	Joint displaced large		0_4	3
05.10m	CM	Cracks, multiple 06-12		0_5	3 —///
05.70m	JDL	Joint displaced large		0_6	3 —///
06.50m	DER	Settled deposits coarse 40%		0_7	3 —///
07.00m	JX	Defective junction 12:100mm Diameter		8_0	4 —///
08.20m	CC	Crack, circumferential 06-12		0_9	2 —//
09.70m	JN	Junction 10:100mm Diameter		0_10	0 —
11.90m	JN	Junction 10:100mm Diameter		0_11	0
13.00m	DER	Settled deposits coarse 40%		0_12	3
15.90m	MHF	Finish node type, manhole			015.9m

Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects	1 Grade 5 Defects	1
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH1	
00.00m	WL	Water level: 0% Height/Diameter	
01.80m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 0_2
03.80m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 0_3
			+0003.8
04.40m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 0_4
			+0004.4

		_		
Total	grades	tor	nro	ioct
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Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects	1	Grade 5 Defects	1	1
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Pos	Code	Description	Image
05.10m	СМ	Cracks, multiple from 06 o'clock to 12 o'clock - Grade 3	
05.70m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 0_6
06.50m	DER	Settled deposits coarse: 40% Cross sectional area loss - Grade 3 concrete in run	Image Provided - Ref: 0_7

Pos	Code	Description	Image
07.00m	JX	Defective junction at 12 o'clock: 100mm Diameter - Grade 4	Image Provided - Ref: 0_8
08.20m	CC	Crack, circumferential from 06 o'clock to 12 o'clock - Grade 2	Image Provided - Ref: 0_9
09.70m	JN	Junction at 10 o'clock: 100mm Diameter	Image Provided - Ref: 0_10

Inspection Report

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Pos	Code	Description	Image
11.90m	JN	Junction at 10 o'clock: 100mm Diameter	Image Provided - Ref: 0_11
13.00m	DER	Settled deposits coarse: 40% Cross sectional area loss - Grade 3 concrete in run	Image Provided - Ref: 0_12
15.90m	MHF	Finish node type, manhole MH2	

Section 2

Internatational 11 Briardale Gardens london Jason 09/01/2 Node Ref: MH1 Finish Node Ref: up stream 0.00 Use: C Shape: Node Coordinate: VC Cleaned Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks Tomage Control Code Description Code Description 0.00 Use: C Shape: Material: VC Cleaned Type Uning Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks Type Code Description 0.00 Om MH Start node type, manhole 0.00 Om WL Water level 0% 0.00 Om XP Collapsed drain/sewer 80% 1_2 5.00 Om XP Collapsed drain/sewer 80%	rematational 11 Briardale Gardens london Jason 09/01/201 Re Ref: MH1 Finish Node Ref: up stream Direction: U Height/Dia: 1 Shape: Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks	TK Internatational 11 Briardale Gardens london Jason 09/01/20 It Node Ref: MH1 Finish Node Ref: Finish Node Depth: Finish Node Depth: Finish Node Depth: Finish Node Coordinate: Use: C Material: VC Cleaned In Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks A D N 0 Sitton Code Description CD Pic Grade .00m MH Start node type, manhole .00m WL Water level 0% .00m XP Collapsed drain/sewer 80% .00m SA Survey abandoned	nic. i i	Dila	uaic	Gardens	, iona	OII			Jason up stream 0.00 Direction: U House: C S Material: VC C S Material: VC C C S S S S S S S S S S S S S S S S		Jecti	OII	
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Node Depth: 700.00 Finish Node Depth: 0.00 Use: C Material: VC Cleaned Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks D N 0 Tomage Correction Code Description Om MH Start node type, manhole Om WL Water level 0% Om XP Collapsed drain/sewer 80% Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks Om Om XP Collapsed drain/sewer 80% Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks Om Om N O Om Om N Om Om N Om Om N Om N	le Depth: 700.00 Finish Node Depth: Finish Node Coordinate: 0.00 Use: Cleaned Material: VC Cleaned Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks The Code Description CD Pic Grade MH Start node type, manhole 0 0 MYL Water level 0% 0 MYP Collapsed drain/sewer 80% 1_2 5 MYP SA Survey abandoned 0 0 MYP SA Survey abandoned 0 0 MYP Collapsed drain/sewer 80% 1_2 5	rt Node Depth: 700.00 Finish Node Depth: Finish Node Coordinate: 700.00 Use: C Material: VC Cleaned Type Lining Type Lining Mat. Year Const. Weather Flow Cont. Length Remarks A D N 0 Sition Code Description CD Pic Grade .00m MH Start node type, manhole 0 — 0 — 0.00m WL Water level 0% 0 — 0.00m XP Collapsed drain/sewer 80% 1_2 5 — 0.00m SA Survey abandoned 0 — 0.00m SA Survey abandoned	TK Inter	natation	al	11 Briardal	e Gardens	Į.	ondon			Jas	on	09/01/2	201
tion Code Description Om MH Start node type, manhole Om WL Water level 0% Om XP Collapsed drain/sewer 80% On XP Collapsed drain/sewer 80%	n Code Description MH Start node type, manhole WL Water level 0% XP Collapsed drain/sewer 80% SA Survey abandoned CD Pic Grade 0 — 0 — 0 — 0 — 0 — 0 — 1_2 5 — 0 —	A D N 0 sition Code Description .00m MH Start node type, manhole .00m WL Water level 0% .00m XP Collapsed drain/sewer 80% .00m SA Survey abandoned CD Pic Grade 0 — 1_2 5 — 0 —	tart Node	Depth:	ate:		0.00 Finis	h Node Depth		-		Use:	C Sh	ape:	1
tion Code Description Om MH Start node type, manhole Om WL Water level 0% Om XP Collapsed drain/sewer 80% On Code Description On CD Pic Grade On On One Of the Code Description On Of the Code Description One Of the Code Description On Of the Code Description On Of the Code Description One Of the Code Description One Of the Code Descriptio	n Code Description MH Start node type, manhole WL Water level 0% XP Collapsed drain/sewer 80% SA Survey abandoned CD Pic Grade 0 — 1 — 0 — 0 — 0 — 0 — 0 — 0 —	sition Code Description .00m MH Start node type, manhole .00m WL Water level 0% .00m XP Collapsed drain/sewer 80% .00m SA Survey abandoned CD Pic Grade 0 — 1_2 5 — 0 —	rain Type	Lining	Туре	Lining Mat.	Year Con	st. Weather	Flow Cont.	Length		Re	marks		
Om MH Start node type, manhole 0 — Om WL Water level 0% 0 — Om XP Collapsed drain/sewer 80% 1_2 5 —	MH Start node type, manhole NUL Water level 0% NUL Collapsed drain/sewer 80% NUL Start node type, manhole NUL Water level 0% NUL Water level	.00m MH Start node type, manhole .00m WL Water level 0% .00m XP Collapsed drain/sewer 80% .00m SA Survey abandoned 0 — 1_2 5 — 0 —	Α					D	N	0					
0m WL Water level 0% 0 — 0m XP Collapsed drain/sewer 80% 1_2 5 —	No. WL Water level 0% 0 — No. XP Collapsed drain/sewer 80% 1_2 5 — No. SA Survey abandoned 0 — No. XP Collapsed drain/sewer 80% 1_2 5 — No. SA Survey abandoned 0 — No. XP Collapsed drain/sewer 80% 1_2 5 — No. XP Collapsed drain/sewer 80% 1_2	.00m WL Water level 0% 0 — .00m XP Collapsed drain/sewer 80% 1_2 5 — .00m SA Survey abandoned 0 —				-	manhole	<u> </u>			CD Pi		_	0m	
	n SA Survey abandoned 0 —	.00m SA Survey abandoned 0 —						,					_		
0m SA Survey abandoned 0 —			0.00m	XP	Colla	apsed drain/	sewer 8	30%			1_	_2 5			
0m).00m	SA	Surv	ey abandon	ed					0	_		

Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects	1	Grade 5 Defects	1	7
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH1	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	XP	Collapsed drain/sewer: 80% Cross sectional area loss - Grade 5	Image Provided - Ref: 1_2
00.00m	SA	Survey abandoned unable to pass	

Section 3

	Client:	ient: Location (Street Name):			City/T	own/Village	Cus	st Job Ref.	Surveyors Name:			Date:	
TK Ir	iternatational	tional 11 Briardale Gardens			london				Jason			09/01/2019	
Start No	de Ref:	N	Finish No	ode Ref:		BR 1 Direction: U H			Heig	ht/Dia:	100		
Start No	de Depth:	n: 700.00 Finish No					Use:	С	Shap	oe:	С		
Start No	de Coordinate:			Finish No	ode Coordi	nate:			Material:	VC	Clea	ned	N
						I	1						
Drain Ty	pe Lining Type	Lining Mat.	Yea	r Const.	Weather Flow Cont. Length Remarks					narks			
А					D N 2.1								

Position	Code	Description	CD	Pic	Grade 0m
00.00m	МН	Start node type, manhole			0 —//
00.00m	WL	Water level 0%			0 —
01.80m	DER	Settled deposits coarse 40%		2_2	3 —
01.90m	DER	Settled deposits coarse 20%		2_3	3 —\
02.10m	DER	Settled deposits coarse 40%		2_4	3 —\\
02.10m	BRF	Finish node type, major connection without manhole			0 ————————————————————————————————————

Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects	1	Grade 5 Defects	1	7
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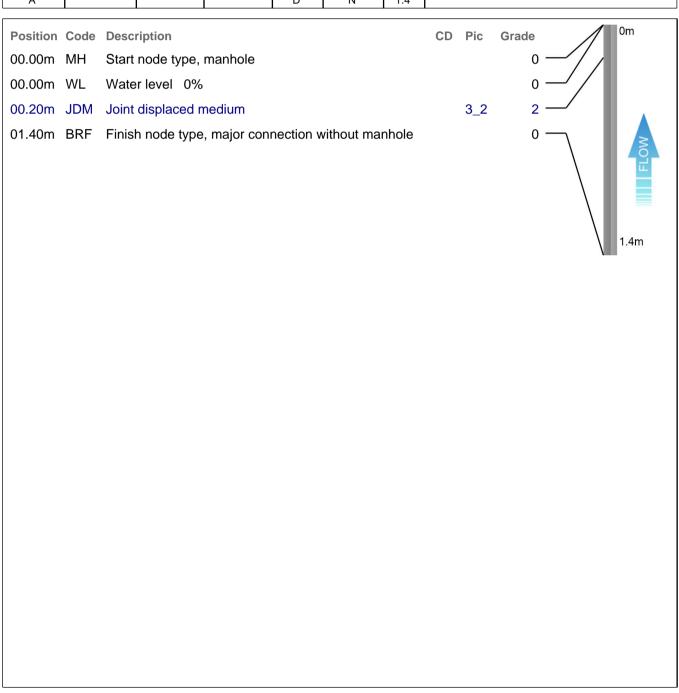
Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH1	
00.00m	WL	Water level: 0% Height/Diameter	
01.80m	DER	Settled deposits coarse: 40% Cross sectional area loss - Grade 3	Image Provided - Ref: 2_2
01.90m	DER	Settled deposits coarse: 20% Cross sectional area loss - Grade 3	Image Provided - Ref: 2_3
02.10m	DER	Settled deposits coarse: 40% Cross sectional area loss - Grade 3	Image Provided - Ref: 2_4
02.10m	BRF	Finish node type, major connection without manhole BR 1	

Grade 1 Defects	0	Grade 2 Defects	2	Grade 3 Defects	15	Grade 4 Defects	1	Grade 5 Defects	1	
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Section 4

Cli	ent:	Location (Street Name)		City/T	own/Village	Cust	Job Ref.	Surveyors Name:			Date:	
TK Interr	natational	11 Briardale Gardens lond		ondon			Jason			09/01/2	2019	
Start Node F	rt Node Ref: MH1 Finish N						BR 2	Direction:	U	Heig	ht/Dia:	100
Start Node [Depth:	700	0.00 Finish	Node Depth:			0.00	Use:	С	Shap	oe:	С
Start Node (Coordinate:		Finish	Node Coord	inate:			Material:	VC	Clea	ned	N
Droin Tuno	Lining Type	Lining Mot	ot Voor Const. Weather Flow Cont. Length									

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length		Rema	rks
Α				D	N	1.4			
Position	Code Desc	ription					CD Pic	Grade	0m



Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects 1	Grade 5 Defects 1
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH1	
00.00m	WL	Water level: 0% Height/Diameter	
00.20m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 3_2
01.40m	BRF	Finish node type, major connection without manhole BR 2	

Section 5

Cli	ent:	Location (Street Name):			City/T	own/Village	Cus	t Job Ref.	Surveyors	Name	:	Date	e:
TK Interr	atational	11 Briardal	11 Briardale Gardens london					Jaso	n		09/01/2019		
Start Node F	Ref:	N	1H2 Fini	Finish Node Ref: Main Di						D Heig		ht/Dia:	150
Start Node [Depth:	1,800	0.00 Fini	ish No	de Depth:			0.00	Use:	С	Shap	oe:	С
Start Node (Coordinate:		Fini	ish No	de Coordi	nate:			Material:	VC	Clea	ned	N
	-		•										
Drain Type	Lining Type	Lining Mat.	Year Co	onst.	Weather	Flow Cont.	Length	n Remarks					
Α					D	N	6.9	1					

Position	Code	Description	CD	Pic	Grade 0m
00.00m	MH	Start node type, manhole			0 —//
00.00m	WL	Water level 0%			0 —//
01.10m	JDL	Joint displaced large		4_2	3 —
03.90m	DER	Settled deposits coarse 20%		4_3	3
05.80m	JDL	Joint displaced large		4_4	3
06.90m	BRF	Finish node type, major connection without manhole		4_99	0 6.9m

Grade 1 Defects 0 Grade 2 Defects	2 Grade 3 Defects	15 Grade 4 Defects	1	Grade 5 Defects	1	7
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH2	
00.00m	WL	Water level: 0% Height/Diameter	
01.10m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 4_2
03.90m	DER	Settled deposits coarse: 20% Cross sectional area loss - Grade 3	Image Provided - Ref: 4_3
05.80m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 4_4

Grade 1 Defects 0 Grade 2 Defec	2 Grade 3 Defects	15 Grade 4 Defects	1 Grade 5 Defect	3 1
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Inspection Report

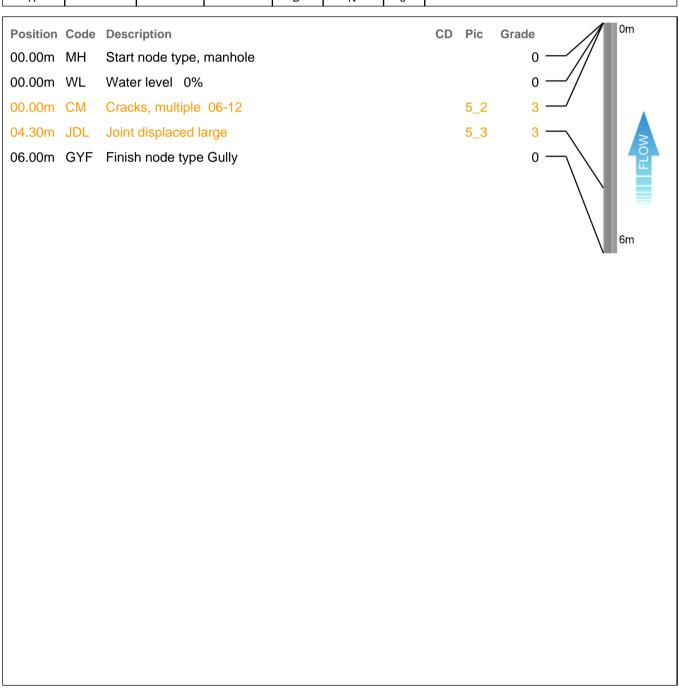
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Pos	Code	Description	Image
06.90m	BRF	Finish node type, major connection without manhole Main	Image Provided - Ref: 4_9999

Section 6

Client:		Location (Street Name):		me):	City/T	own/Village	Cust	Job Ref.	Surveyors Name:			Date	э:
TK Internatational		11 Briardale Gardens		lo	ondon			Jason		09/01/2019		2019	
Start Node F	Ref:	Ŋ	/H2 Fin	nish No	de Ref:			BR	1 Direction:	U	Heig	ht/Dia:	100
Start Node Depth: 1,800.00		0.00 Fin	Finish Node Depth: 0.00			Use:	С	Shap	oe:	С			
Start Node Coordinate:			Fin	Finish Node Coordinate:				Material:	VC	Clea	ned	N	
	-								•				
Drain Type	Lining Type	Lining Mat. Year Const.		onst.	Weather	Flow Cont.	Length		Re	marks			

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks			
Α				D	N	6				
Position	Code Desc	ription					CD	Pic	Grade	Om



Grade 1 Defects 0 Grade 2 D	efects 2 Grade 3 Defects	15 Grade 4 Defects	1	Grade 5 Defects	1	٦
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole MH2	
00.00m	WL	Water level: 0% Height/Diameter	
00.00m	СМ	Cracks, multiple from 06 o'clock to 12 o'clock - Grade 3	Image Provided - Ref: 5_2
04.30m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 5_3 +0004.3
06.00m	GYF	Finish node type Gully BR 1	

Grade 1 Defects 0 Grade 2 Defec	2 Grade 3 Defects	15 Grade 4 Defects	1 Grade 5 Defect	3 1
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