

APPENDIX F – DRAINAGE SURVEY PLANS & REPORT

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**Lordship Lane,
Wood Green,
London**

05/10/2023

**Job Number: UM23-1730-FWC
Client Job Number: UM23-1730-FWC**

Utility Mapping Group Ltd

Studio 3, The Locks, Rugby, Warwickshire, CV21 4PP
Tel: 0800 024 8627

Job Number
UM23-1730-FWC

Surveyed by (Operator)
Elliot Raimbault

Base Unit
WA33IWKDLA

Date
05/10/2023

Client Details:

Farrow Walsh Consulting

Site Details:

Lordship Lane,
Wood Green,
London

Contractor Details:

Utility Mapping Group UK Ltd
Studio 3, The Locks
Hillmorton, Rugby
Warwickshire
CV21 4PP

Office Contact Number: 0800 024 8627

Purpose of Survey:

Drainage Mapping and CCTV Survey

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
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Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
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Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
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Job Information

Total Distance Surveyed: **379.85 metres**
Engineer: **Elliot Raimbault**
Number of Surveys: **13**
Number of Surveys grade 4 or above: **0**

Section 1 Overview (05/10/2023)

Manholes: **MH06a to Upstream**
Pipe Length: **50 metres**
Structural Grade: **1**
Service Grade: **3**
Material: **Vitrified clay**
Pipe Size: **225mm**
Use: **Surface water**

Section 2 Overview (05/10/2023)

Manholes: **MH06b to MH16**
Pipe Length: **44.35 metres**
Structural Grade: **1**
Service Grade: **0**
Material: **Vitrified clay**
Pipe Size: **225mm**
Use: **Surface water**

Section 3 Overview (05/10/2023)

Manholes: **MH06x to MH14**
Pipe Length: **16 metres**
Structural Grade: **1**
Service Grade: **2**
Material: **Vitrified clay**
Pipe Size: **225mm**
Use: **Surface water**

Section 4 Overview (05/10/2023)

Manholes: **MH07c to EOT**
Pipe Length: **9 metres**
Structural Grade: **0**
Service Grade: **4**
Material: **Vitrified clay**
Pipe Size: **229mm**
Use: **Foul**

Section 5 Overview (05/10/2023)

Manholes: **MH07x to OSA**
Pipe Length: **6 metres**
Structural Grade: **1**
Service Grade: **2**
Material: **Vitrified clay**
Pipe Size: **229mm**
Use: **Foul**

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
Section 6 Overview (05/10/2023) Manholes: MH11a to MH09 Pipe Length: 11.5 metres Structural Grade: 0 Service Grade: 3 Material: Vitrified clay Pipe Size: 225mm Use: Surface water			
Section 7 Overview (05/10/2023) Manholes: MH11x to MH12 Pipe Length: 3.69 metres Structural Grade: 1 Service Grade: 0 Material: Vitrified clay Pipe Size: 225mm Use: Surface water			
Section 8 Overview (05/10/2023) Manholes: MH14a to MH06 Pipe Length: 20 metres Structural Grade: 1 Service Grade: 0 Material: Vitrified clay Pipe Size: 225mm Use: Surface water			
Section 9 Overview (05/10/2023) Manholes: MH14c to Upstream Pipe Length: 3.9 metres Structural Grade: 3 Service Grade: 0 Material: Vitrified clay Pipe Size: 225mm Use: Surface water			
Section 10 Overview (05/10/2023) Manholes: MH14x to Culvert Pipe Length: 5.41 metres Structural Grade: 0 Service Grade: 2 Material: Vitrified clay Pipe Size: 300mm Use: Surface water			
Section 11 Overview (05/10/2023) Manholes: MH16a to EOT Pipe Length: 40 metres Structural Grade: 3 Service Grade: 2 Material: Vitrified clay Pipe Size: 225mm Use: Surface water			

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
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Section 12 Overview (05/10/2023)

Manholes: **MH18x to MH19**
Pipe Length: **70 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Concrete**
Pipe Size: **2604.1370mm**
Use: **Surface water**

Section 13 Overview (18/10/2023)

Manholes: **MH19a to MH18**
Pipe Length: **100 metres**
Structural Grade: **0**
Service Grade: **0**
Material: **Brick**
Pipe Size: **2604.1370mm**
Use: **Surface water**

Surveyed by (Operator) Elliott Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) Upstream X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/1	Base Unit WA33IWKDLA	Section Number 1

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH06a End Node Upstream Total length 50 metres
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Scale 1:2.62 Direction Upstream	View via iTouch Live 	Download 
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Start Node Ref:MH06a | I/L : metres | Depth: 1.37 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH06a	8617459	Comment / 0
0.00	WL	Water level 0% height/diameter	8617460	Comment / 0
9.71	JDM	Joint displaced medium	8617477	Structural / 1
18.04	CN	Connection other than junction at 12 o'clock, diameter 100mm	8617481	Comment / 0
32.73	JDM	Joint displaced medium	8617501	Structural / 1
38.05	CN	Connection other than junction at 2 o'clock, diameter 150mm	8617508	Comment / 0
38.05	DER (S01)	Settled deposits coarse 10% cross-sectional area loss, Start	8617509	Service / 3
39.12	DER (F01)	Settled deposits coarse 10% cross-sectional area loss, Finished	8617510	Service / 3
43.49	CN	Connection other than junction at 2 o'clock, diameter 150mm	8617528	Comment / 0
48.51	SC	Dimensions of drain/sewer changes to 100mm	8617546	Comment / 0
48.51	SA	Survey abandoned - Remark: UTR 100	8617551	Comment / 0

End Node Ref:Upstream | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH06a		 0.00 M Water level 0% height/diameter	
From: MH06a / To: Upstream Size: 225mm  9.61 M Joint displaced medium		From: MH06a / To: Upstream Size: 225mm  17.95 M Connection other than junction at 12 o'clock, diameter 100mm	
From: MH06a / To: Upstream Size: 225mm  32.61 M Joint displaced medium		From: MH06a / To: Upstream Size: 225mm  38.05 M Connection other than junction at 2 o'clock, diameter 150mm	

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
From: MH06a / To: Upstream Size: 225mm  38.05 M Settled deposits coarse 10% cross-sectional area loss, Start		From: MH06a / To: Upstream Size: 225mm  39.04 M Settled deposits coarse 10% cross-sectional area loss, Finished	
From: MH06a / To: Upstream Size: 225mm  43.49 M Connection other than junction at 2 o'clock, diameter 150mm		From: MH06a / To: Upstream Size: 225mm  48.51 M Dimensions of drain/sewer changes to 100mm	
From: MH06a / To: Upstream Size: 100mm  48.51 M Survey abandoned - Remark: UTR 100			

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH16	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/1	Base Unit WA33IWKDLA	Section Number 2
Road Lordship Lane, Place Wood Green, Location London		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH06b End Node MH16 Total length 44.35 metres		
Scale 1:2.33 Direction Upstream		View via iTouch Live Download		

Start Node Ref:MH06b | I/L : metres | Depth: 1.24 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH06b	8617042	Comment / 0
0.00	WL	Water level 0% height/diameter	8617043	Comment / 0
10.56	CN	Connection other than junction at 10 o'clock, diameter 150mm	8617082	Comment / 0
32.22	CN	Connection other than junction at 9 o'clock, diameter 150mm	8617104	Comment / 0
43.82	JDL	Joint displaced large	8617123	Structural / 1
44.35	MHF	Finish node type, manhole, reference MH16	8617146	Comment / 0

End Node Ref:MH16 | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.01 M Start node type, manhole, reference MH06b		 0.01 M Water level 0% height/diameter	
 From: MH06b / To: Upstream Size: 225mm 10.56 M Connection other than junction at 10 o'clock, diameter 150mm		 From: MH06b / To: Upstream Size: 225mm 32.22 M Connection other than junction at 9 o'clock, diameter 150mm	
 From: MH06b / To: Upstream Size: 225mm 43.72 M Joint displaced large		 From: MH06b / To: Upstream Size: 225mm 44.35 M Finish node type, manhole, reference MH16	

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH06x X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 2/1	Base Unit WA33IWKDLA	Section Number 3

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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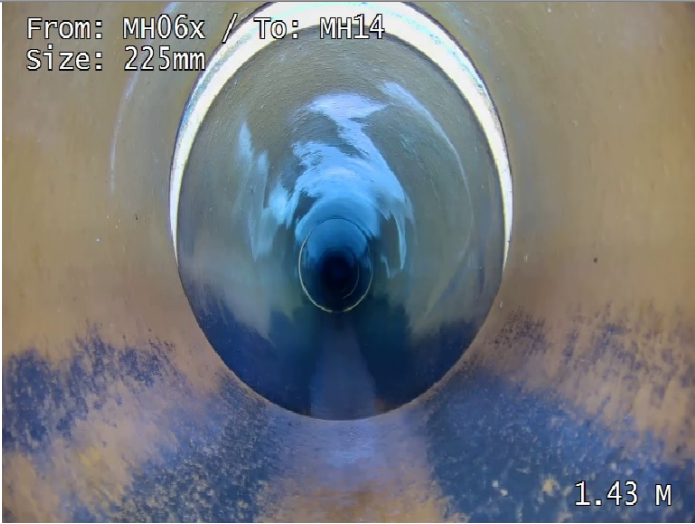
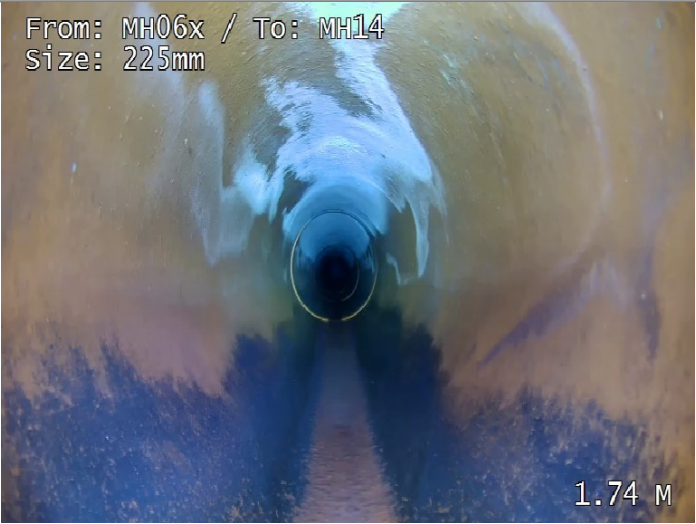
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH06x End Node MH14 Total length 16 metres
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Scale 1:0.84 Direction Downstream	View via iTouch Live  Download 
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Start Node Ref:MH06x | I/L : metres | Depth: 1.40 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH06x	8616961	Comment / 0
0.00	WL	Water level 0% height/diameter	8616963	Comment / 0
1.43	JDL	Joint displaced large	8616971	Structural / 1
1.74	LD	Line of drain/sewer deviates down	8616993	Comment / 0
6.40	JDM	Joint displaced medium	8616994	Structural / 1
8.27	RF (S01)	Roots fine, Start	8616995	Service / 2
9.87	RF (F01)	Roots fine, Finished	8625030	Service / 2
11.46	JDM	Joint displaced medium	8617004	Structural / 1
14.68	LD	Line of drain/sewer deviates down	8617012	Comment / 0
15.02	SA	Survey abandoned - Remark: UTR Down	8617024	Comment / 0

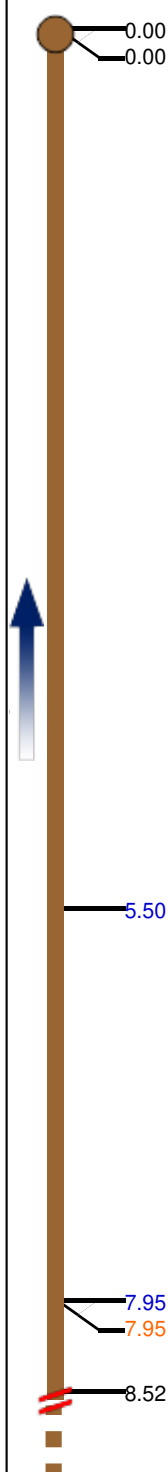
End Node Ref:MH14 | I/L : metres | Depth: 1.80 metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH06x			
 0.00 M Water level 0% height/diameter			
From: MH06x / To: MH14 Size: 225mm  1.43 M Joint displaced large			
From: MH06x / To: MH14 Size: 225mm  1.74 M Line of drain/sewer deviates down			
From: MH06x / To: MH14 Size: 225mm  6.30 M Joint displaced medium			
From: MH06x / To: MH14 Size: 225mm  8.16 M Roots fine, Start			

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
From: MH06x / To: MH14 Size: 225mm  9.87 M Roots fine, Finished From: MH06x / To: MH14 Size: 225mm  11.35 M Joint displaced medium			
From: MH06x / To: MH14 Size: 225mm  14.58 M Line of drain/sewer deviates down From: MH06x / To: MH14 Size: 225mm  15.02 M Survey abandoned - Remark: UTR Down			

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) EOT	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 4/0	Base Unit WA33IWKDLA	Section Number 4
Road Lordship Lane, Place Wood Green, Location London		Division District Location Details		
Purpose Duty Foul Catchment	Shape/Size 229mm Material Vitrified clay Category	Start Node MH07c End Node EOT Total length 9 metres		
Scale 1:0.47 Direction Upstream		View via iTouch Live  Download 		

Start Node Ref:MH07c | I/L : metres | Depth: 1.70 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH07c	8614723	Comment / 0
0.00	WL	Water level 0% height/diameter	8614724	Comment / 0
				
5.50	DER (S1)	Settled deposits coarse 5% cross-sectional area loss, Start	8624523	Service / 2
7.95	DER (F1)	Settled deposits coarse 5% cross-sectional area loss, Finished	8624528	Service / 2
7.95	DEE	Attached deposits, encrustation from 3 to 9 o'clock 40% cross-sectional area loss	8624539	Service / 4
8.52	SA	Survey abandoned - Remark: Blockage	8614733	Comment / 0

End Node Ref:EOT | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH07c		 0.00 M Water level 0% height/diameter	
From: MH07c / To: Upstream Size: 229mm  5.50 M Settled deposits coarse 5% cross-sectional area loss, Start		From: MH07c / To: Upstream Size: 229mm  7.95 M Settled deposits coarse 5% cross-sectional area loss, Finished	
From: MH07c / To: Upstream Size: 229mm  7.95 M Attached deposits, encrustation from 3 to 9 o'clock 40% cross-sectional area loss		From: MH07c / To: Upstream Size: 229mm  8.52 M Survey abandoned - Remark: Blockage	

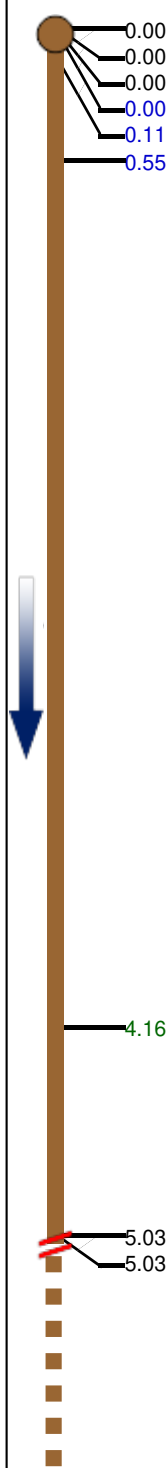
Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH07x X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 2/1	Base Unit WA33IWKDLA	Section Number 5

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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Purpose Duty Foul Catchment	Shape/Size 229mm Material Vitrified clay Category	Start Node MH07x End Node OSA Total length 6 metres
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Scale 1:0.31 Direction Downstream	View via iTouch Live  Download 
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Start Node Ref:MH07x | I/L : metres | Depth: 1.72 metres

Position	Code	Description	Photo	Type/Grade
	0.00	MH	Start node type, manhole, reference MH07x	8614869 Comment / 0
	0.00	WL	Water level 5% height/diameter	8614870 Comment / 0
	0.00	WL (S01)	Water level 5% height/diameter, Start	8614871 Comment / 0
	0.00	DEFJ	Attached deposits, fouling from 12 to 12 o'clock 5% cross-sectional area loss, at joint	8614872 Service / 2
	0.11	DEFJ	Attached deposits, fouling from 12 to 12 o'clock 5% cross-sectional area loss, at joint	8614873 Service / 2
	0.55	DEFJ	Attached deposits, fouling from 7 to 9 o'clock 5% cross-sectional area loss, at joint	8614877 Service / 2
	4.16	JDM	Joint displaced medium	8614880 Structural / 1
	5.03	WL (F01)	Water level 5% height/diameter, Finished	8614881 Comment / 0
	5.03	SA	Survey abandoned - Remark: OSA	8614882 Comment / 0

End Node Ref:OSA | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH07x		 0.00 M Water level 5% height/diameter	
From: MH07x / To: OSA Size: 229mm  0.00 M Water level 5% height/diameter, Start		From: MH07x / To: OSA Size: 229mm  0.00 M Attached deposits, fouling from 12 to 12 o'clock 5% cross-sectional area loss, at joint	
From: MH07x / To: OSA Size: 229mm  0.10 M Attached deposits, fouling from 12 to 12 o'clock 5% cross-sectional area loss, at joint		From: MH07x / To: OSA Size: 229mm  0.55 M Attached deposits, fouling from 7 to 9 o'clock 5% cross-sectional area loss, at joint	

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
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Joint displaced medium



Water level 5% height/diameter, Finished



Survey abandoned - Remark: OSA

Surveyed by (Operator) Elliot Rimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH09 X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 3/0	Base Unit WA33IWKDLA	Section Number 6

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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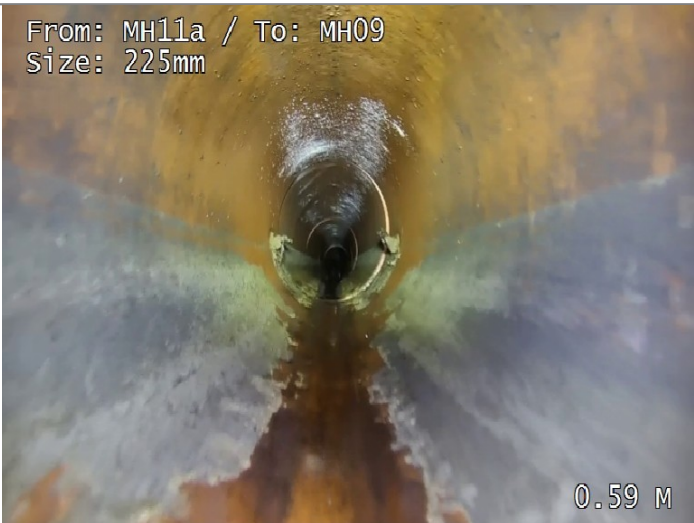
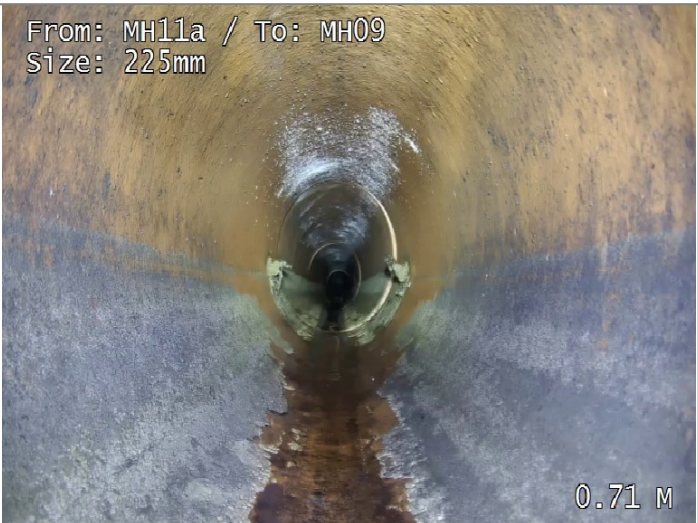
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH11a End Node MH09 Total length 11.5 metres
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Scale 1:0.60 Direction Upstream	View via iTouch Live  Download 
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Start Node Ref:MH11a | I/L : metres | Depth: 0.92 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH11a	8616703	Comment / 0
0.00	WL	Water level 0% height/diameter	8616704	Comment / 0
0.00	DEZ (S01)	Other attached deposits at 3 o'clock 10% cross-sectional area loss - Remark Silt, Start	8616705	Service / 3
0.06	DEZ (S02)	Other attached deposits at 11 o'clock 5% cross-sectional area loss - Remark Silt, Start	8616717	Service / 2
0.71	DEZ (F01)	Other attached deposits at 3 o'clock 10% cross-sectional area loss - Remark Silt, Finished	8616718	Service / 3
0.71	DEZ (F02)	Other attached deposits at 11 o'clock 5% cross-sectional area loss - Remark Silt, Finished	8616719	Service / 2
1.48	DEE	Attached deposits, encrustation from 3 to 9 o'clock 5% cross-sectional area loss	8616720	Service / 2
6.67	DER (S03)	Settled deposits coarse 10% cross-sectional area loss, Start	8616721	Service / 3
8.78	DER (F03)	Settled deposits coarse 10% cross-sectional area loss, Finished	8616726	Service / 3
11.50	MHF	Finish node type, manhole, reference MH09	8616728	Comment / 0

End Node Ref:MH09 | I/L : metres | Depth: 1.20 metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH11a			
 0.00 M Water level 0% height/diameter			
From: MH11a / To: MH09 Size: 225mm  0.00 M Other attached deposits at 3 o'clock 10% cross-sectional area loss - Remark Silt, Start			
From: MH11a / To: MH09 Size: 225mm  0.04 M Other attached deposits at 11 o'clock 5% cross-sectional area loss - Remark Silt, Start			
From: MH11a / To: MH09 Size: 225mm  0.59 M Other attached deposits at 3 o'clock 10% cross-sectional area loss - Remark Silt, Finished			
From: MH11a / To: MH09 Size: 225mm  0.71 M Other attached deposits at 11 o'clock 5% cross-sectional area loss - Remark Silt, Finished			

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
From: MH11a / To: MH09 Size: 225mm  1.41 M Attached deposits, encrustation from 3 to 9 o'clock 5% cross-sectional area loss			
From: MH11a / To: MH09 Size: 225mm  6.55 M Settled deposits coarse 10% cross-sectional area loss, Start			
From: MH11a / To: MH09 Size: 225mm  8.66 M Settled deposits coarse 10% cross-sectional area loss, Finished			
From: MH11a / To: MH09 Size: 225mm  11.40 M Finish node type, manhole, reference MH09			

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH11x X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/1	Base Unit WA33IWKDLA	Section Number 7

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH11x End Node MH12 Total length 3.69 metres
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Scale 1:0.19 Direction Downstream	View via iTouch Live Download
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Start Node Ref:MH11x | I/L : metres | Depth: 0.92 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH11x	8616830	Comment / 0
0.00	WL	Water level 0% height/diameter	8616831	Comment / 0
2.60	JDM	Joint displaced medium	8616832	Structural / 1
3.69	OSF	Finish node type, oil separator, reference MH12	8616833	Comment / 0

End Node Ref:MH12 | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH11x			
 0.00 M Water level 0% height/diameter			
 From: MH11x / To: MH12 Size: 225mm 2.60 M Joint displaced medium			
 From: MH11x / To: MH12 Size: 225mm 3.68 M Finish node type, oil separator, reference MH12			

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH06 X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/1	Base Unit WA33IWKDLA	Section Number 8

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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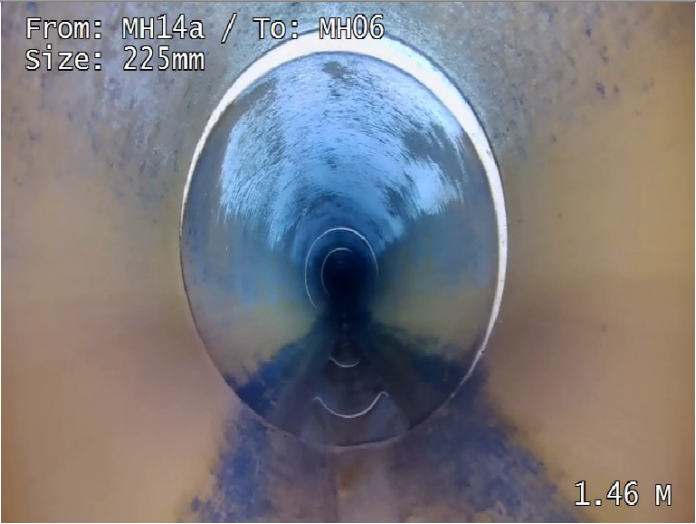
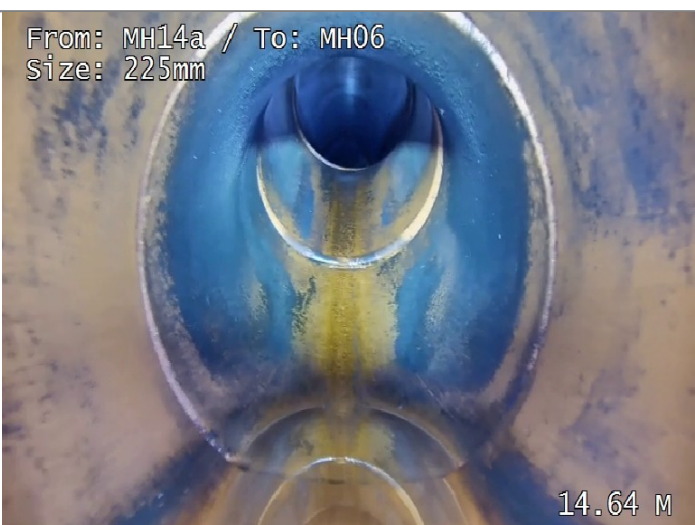
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH14a End Node MH06 Total length 20 metres
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Scale 1:1.05 Direction Upstream	View via iTouch Live  Download 
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Start Node Ref:MH14a | I/L : metres | Depth: 1.80 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH14a	8616019	Comment / 0
0.00	WL	Water level 0% height/diameter	8616020	Comment / 0
0.07	JDM	Joint displaced medium	8616051	Structural / 1
1.55	JDM	Joint displaced medium	8616052	Structural / 1
14.74	LU	Line of drain/sewer deviates up	8616063	Comment / 0
15.77	SA	Survey abandoned - Remark: UTR Up	8616064	Comment / 0

End Node Ref:MH06 | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH14a			
 0.00 M Water level 0% height/diameter			
From: MH14a / To: MH06 Size: 225mm  0.07 M Joint displaced medium			
From: MH14a / To: MH06 Size: 225mm  1.46 M Joint displaced medium			
From: MH14a / To: MH06 Size: 225mm  14.64 M Line of drain/sewer deviates up			
From: MH14a / To: MH06 Size: 225mm  15.77 M Survey abandoned - Remark: UTR Up			

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) Upstream X	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/3	Base Unit WA33IWKDLA	Section Number 9

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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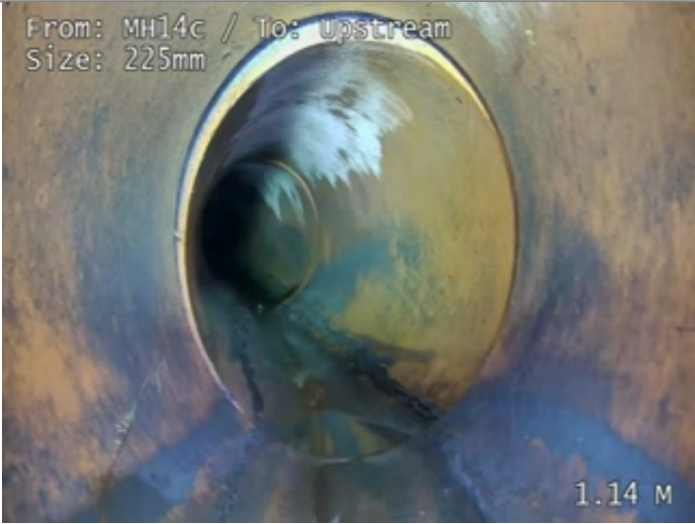
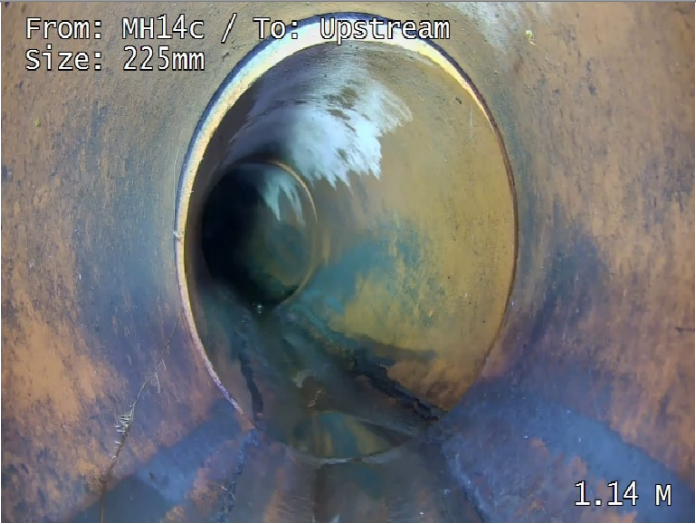
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH14c End Node Upstream Total length 3.9 metres
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Scale 1:0.20 Direction Upstream	View via iTouch Live 	Download 
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Start Node Ref:MH14c | I/L : metres | Depth: 1.68 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH14c	8616111	Comment / 0
0.00	WL	Water level 0% height/diameter	8616112	Comment / 0
1.14	FLJ	Fracture longitudinal at 8 o'clock at joint	8624911	Structural / 3
1.14	JDM	Joint displaced medium	8616126	Structural / 1
1.14	LL	Line of drain/sewer deviates left	8616127	Comment / 0
2.11	JDM	Joint displaced medium	8616133	Structural / 1
3.90	MHF	Finish node type, manhole, reference MH13	8616162	Comment / 0

End Node Ref:Upstream | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.01 M Start node type, manhole, reference MH14c			
 0.01 M Water level 0% height/diameter			
 From: MH14c / To: Upstream Size: 225mm 1.14 M Fracture longitudinal at 8 o'clock at joint			
 From: MH14c / To: Upstream Size: 225mm 1.14 M Joint displaced medium			
 From: MH14c / To: Upstream Size: 225mm 1.14 M Line of drain/sewer deviates left			
 From: MH14c / To: Upstream Size: 225mm 2.11 M Joint displaced medium			

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
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Finish node type, manhole, reference MH13

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH14x	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 2/0	Base Unit WA33IWKDLA	Section Number 10
Road Lordship Lane, Place Wood Green, Location London		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 300mm Material Vitrified clay Category	Start Node MH14x End Node Culvert Total length 5.41 metres		
Scale 1:0.28 Direction Downstream		View via iTouch Live  Download 		

Start Node Ref:MH14x | I/L : metres | Depth: 1.85 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH14x	8615851	Comment / 0
0.00	WL	Water level 0% height/diameter	8615852	Comment / 0
0.00	DES (S1)	Settled deposits fine 5% cross-sectional area loss, Start - Remark: Silt	8624631	Service / 2
2.32	DES (F1)	Settled deposits fine 5% cross-sectional area loss, Finished - Remark: Silt	8624639	Service / 2
3.92	WL	Water level 5% height/diameter	8624647	Comment / 0
5.41	BRF	Finish node type, major connection without manhole, reference Culvert	8615855	Comment / 0

End Node Ref:Culvert | I/L : metres

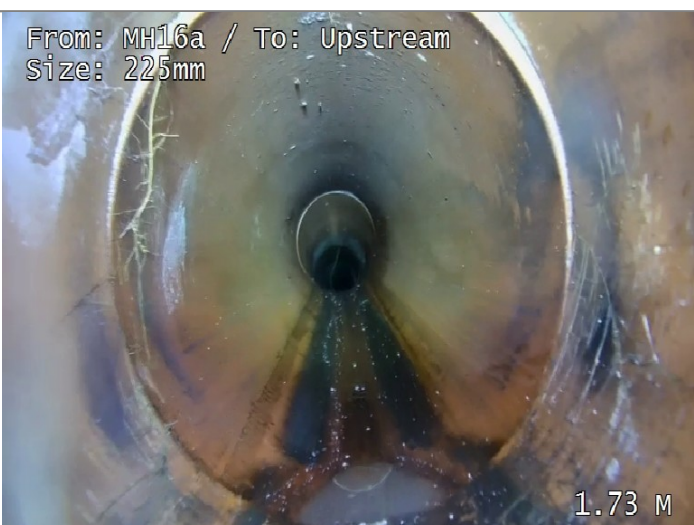
Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH14x		 0.00 M Water level 0% height/diameter	
From: MH14x / To: Culvert Size: 300mm  0.00 M Settled deposits fine 5% cross-sectional area loss, Start - Remark: Silt		From: MH14x / To: Culvert Size: 300mm  2.32 M Settled deposits fine 5% cross-sectional area loss, Finished - Remark: Silt	
From: MH14x / To: Culvert Size: 300mm  3.92 M Water level 5% height/diameter		From: MH14x / To: Culvert Size: 300mm  5.41 M Finish node type, major connection without manhole, reference Culvert	

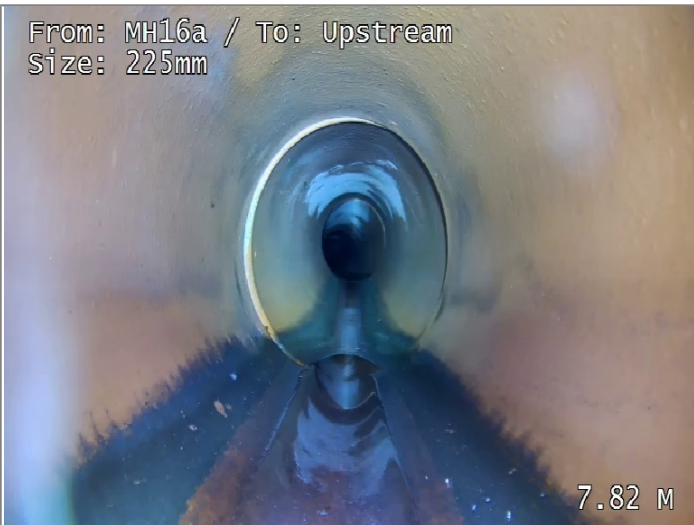
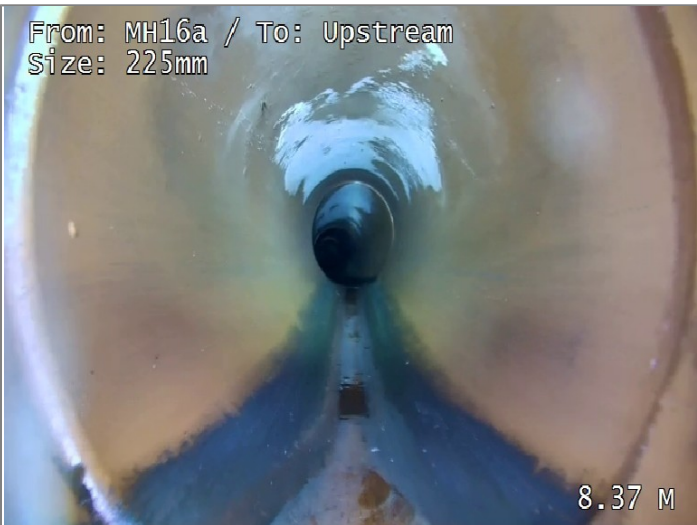
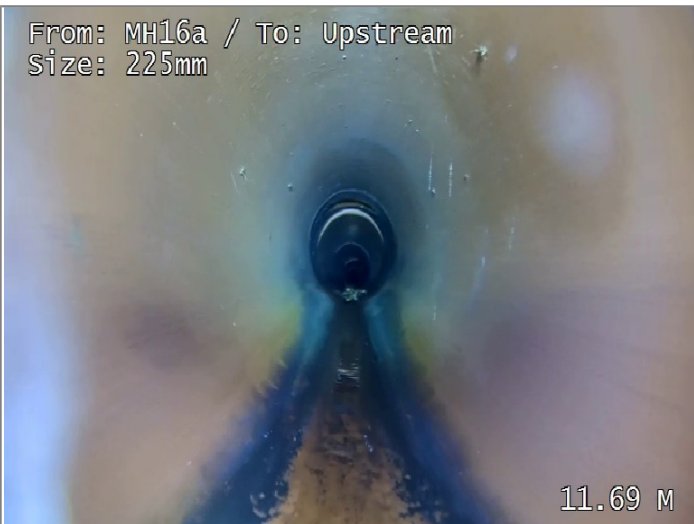
Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) EOT	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 2/3	Base Unit WA33IWKDLA	Section Number 11
Road Lordship Lane, Place Wood Green, Location London		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 225mm Material Vitrified clay Category	Start Node MH16a End Node EOT Total length 40 metres		
Scale 1:2.10 Direction Upstream		View via iTouch Live  Download 		

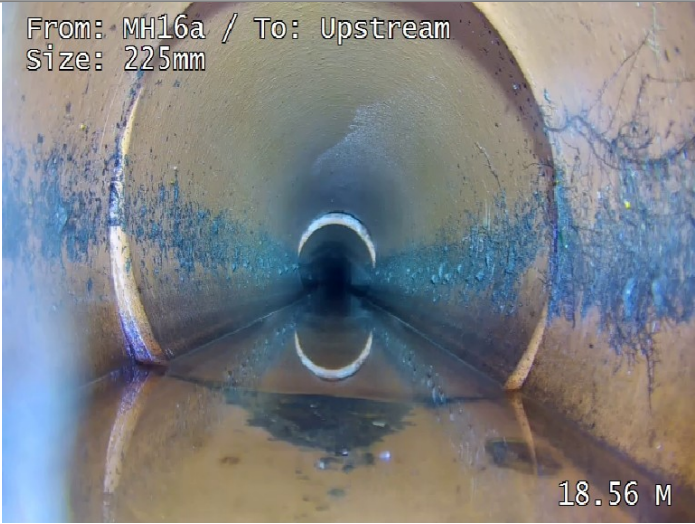
Start Node Ref:MH16a | I/L : metres | Depth: 1.24 metres

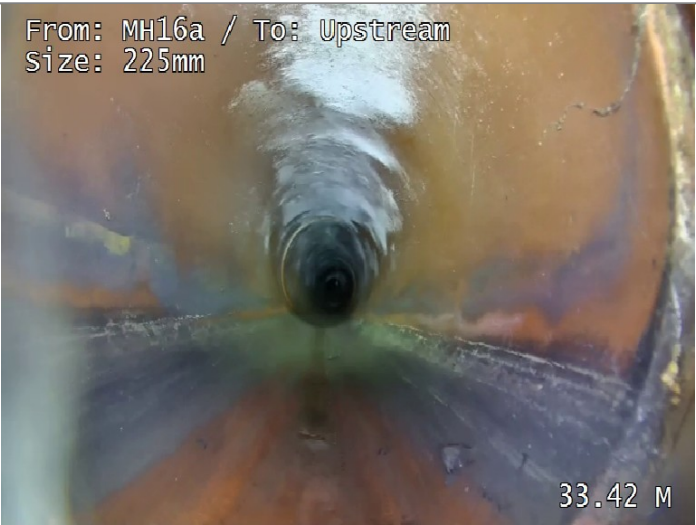
Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH16a	8617883	Comment / 0
0.00	WL	Water level 0% height/diameter	8617885	Comment / 0
0.02	LL	Line of drain/sewer deviates left	8617887	Comment / 0
1.32	FL	Fracture longitudinal at 9 o'clock	8625213	Structural / 3
1.83	LU	Line of drain/sewer deviates up	8617896	Comment / 0
4.31	RF (S01)	Roots fine, Start	8617916	Service / 2
7.82	RF (F01)	Roots fine, Finished	8617917	Service / 2
8.45	LU	Line of drain/sewer deviates up	8617927	Comment / 0
11.79	LU	Line of drain/sewer deviates up	8617929	Comment / 0
13.62	CN	Connection other than junction at 12 o'clock, diameter 150mm	8617953	Comment / 0
13.62	DER (S02)	Settled deposits coarse 5% cross-sectional area loss, Start	8617954	Service / 2
14.77	DER (F02)	Settled deposits coarse 5% cross-sectional area loss, Finished	8617955	Service / 2
15.19	WL (S03)	Water level 5% height/diameter, Start	8617956	Comment / 0
18.56	WL (F03)	Water level 5% height/diameter, Finished	8617957	Comment / 0
18.56	WL (S04)	Water level 10% height/diameter, Start	8617958	Comment / 0
18.56	JDM	Joint displaced medium	8617968	Structural / 1
20.12	JDL	Joint displaced large	8617981	Structural / 1
25.12	JDM	Joint displaced medium	8617982	Structural / 1
33.20	JDM	Joint displaced medium	8617983	Structural / 1
33.48	WL (F04)	Water level 10% height/diameter, Finished	8617998	Comment / 0
38.56	CN	Connection other than junction at 12 o'clock, diameter 150mm	8617999	Comment / 0
39.17	SC	Dimensions of drain/sewer changes to 150mm	8618000	Comment / 0
39.17	SA	Survey abandoned - Remark: UTR Further	8618001	Comment / 0

End Node Ref:EOT | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH16a		 0.00 M Water level 0% height/diameter	
From: MH16a / To: Upstream Size: 225mm  0.02 M Line of drain/sewer deviates left		From: MH16a / To: Upstream Size: 225mm  1.32 M Fracture longitudinal at 9 o'clock	
From: MH16a / To: Upstream Size: 225mm  1.73 M Line of drain/sewer deviates up		From: MH16a / To: Upstream Size: 225mm  4.22 M Roots fine, Start	

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
From: MH16a / To: Upstream Size: 225mm  7.82 M Roots fine, Finished		From: MH16a / To: Upstream Size: 225mm  8.37 M Line of drain/sewer deviates up	
From: MH16a / To: Upstream Size: 225mm  11.69 M Line of drain/sewer deviates up		From: MH16a / To: Upstream Size: 225mm  13.62 M Connection other than junction at 12 o'clock, diameter 150mm	
From: MH16a / To: Upstream Size: 225mm  13.62 M Settled deposits coarse 5% cross-sectional area loss, Start		From: MH16a / To: Upstream Size: 225mm  14.77 M Settled deposits coarse 5% cross-sectional area loss, Finished	

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
From: MH16a / To: Upstream Size: 225mm  15.10 M Water level 5% height/diameter, Start			
From: MH16a / To: Upstream Size: 225mm  18.56 M Water level 5% height/diameter, Finished			
From: MH16a / To: Upstream Size: 225mm  18.56 M Water level 10% height/diameter, Start			
From: MH16a / To: Upstream Size: 225mm  18.56 M Joint displaced medium			
From: MH16a / To: Upstream Size: 225mm  20.12 M Joint displaced large			
From: MH16a / To: Upstream Size: 225mm  25.03 M Joint displaced medium			

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
From: MH16a / To: Upstream Size: 225mm  33.16 M Joint displaced medium From: MH16a / To: Upstream Size: 225mm  33.42 M Water level 10% height/diameter, Finished			
From: MH16a / To: Upstream Size: 225mm  38.56 M Connection other than junction at 12 o'clock, diameter 150mm From: MH16a / To: Upstream Size: 225mm  39.17 M Dimensions of drain/sewer changes to 150mm			
From: MH16a / To: Upstream Size: 150mm  39.17 M Survey abandoned - Remark: UTR Further			

Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH18x	Date 05/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit WA33IWKDLA	Section Number 12
Road Lordship Lane, Place Wood Green, Location London		Division District Location Details		
Purpose Duty Surface water Catchment	Shape/Size 2604x1370mm Material Concrete Category		Start Node MH18x End Node MH19 Total length 70 metres	
Scale 1:3.67 Direction Downstream		View via iTouch Live Download		

Start Node Ref:MH18x | I/L : metres | Depth: 2.13 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH18x	8618379	Comment / 0
0.00	WL	Water level 0% height/diameter	8618380	Comment / 0
33.73	CN	Connection other than junction at 9 o'clock, diameter 100mm	8625309	Comment / 0
45.92	CN	Connection other than junction at 9 o'clock, diameter 100mm	8625315	Comment / 0
60.14	LL	Line of drain/sewer deviates left	8625317	Comment / 0
62.91	SA	Survey abandoned - Remark: UTR Further	8618572	Comment / 0

End Node Ref:MH19 | I/L : metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
 0.00 M Start node type, manhole, reference MH18x		 0.00 M Water level 0% height/diameter	
 From: MH18x / To: Downstream Size: 225mm 33.73 M Connection other than junction at 9 o'clock, diameter 100mm		 From: MH18x / To: Downstream Size: 225mm 45.92 M Connection other than junction at 9 o'clock, diameter 100mm	
 From: MH18x / To: Downstream Size: 225mm 60.14 M Line of drain/sewer deviates left		 From: MH18x / To: Downstream Size: 225mm 62.90 M Survey abandoned - Remark: UTR Further	

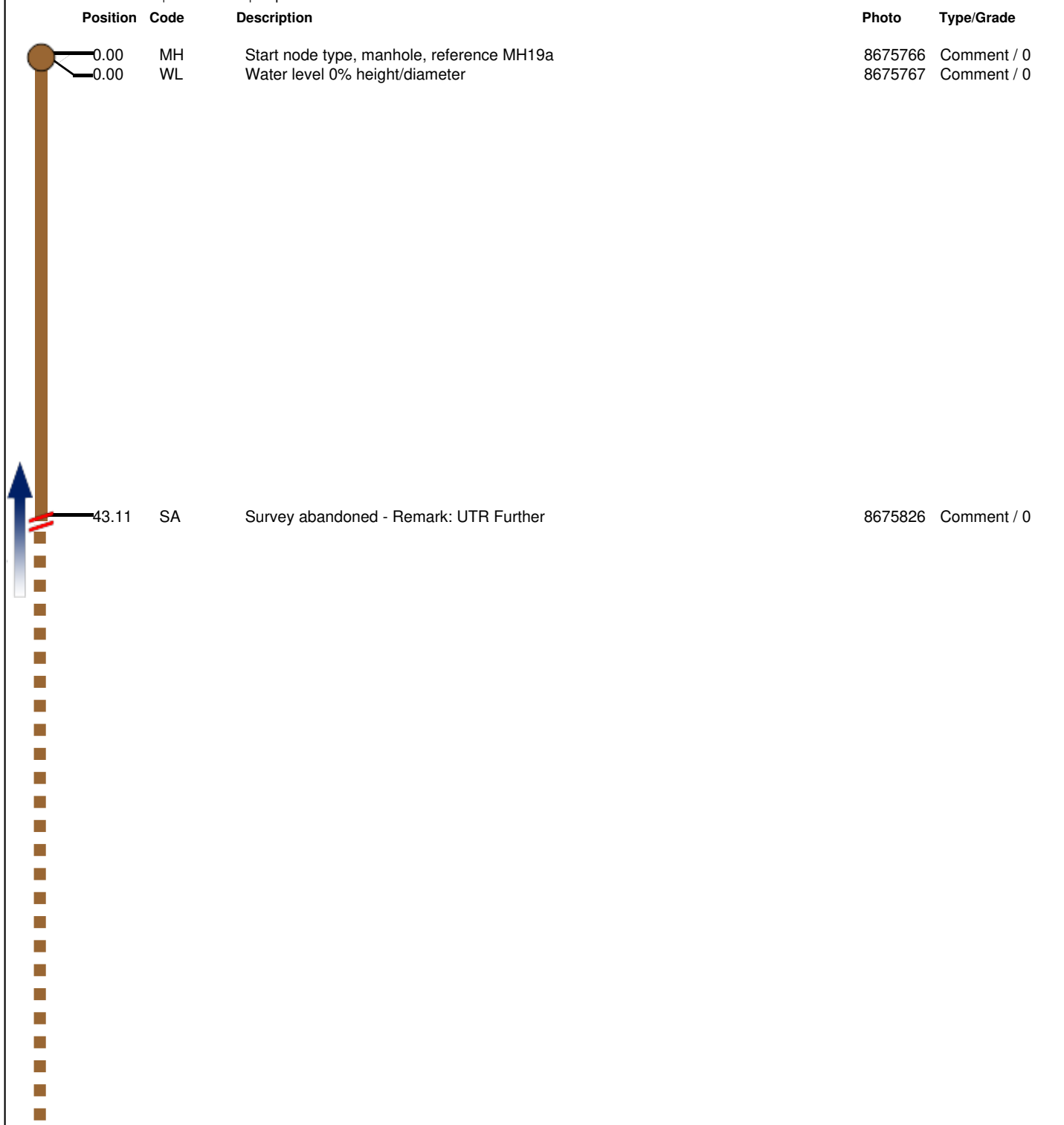
Surveyed by (Operator) Elliot Raimbault	Job Number UM23-1730-FWC	Pipe Length Reference(PLR) MH19a	Date 18/10/2023	Pre Cleaned Not Cleaned
Weather 1 - Dry	Customer Present	Service Grade/Structural Grade 0/0	Base Unit WA33IWKDLA	Section Number 13

Road Lordship Lane, Place Wood Green, Location London	Division District Location Details
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Purpose Duty Surface water Catchment	Shape/Size 2604x1370mm Material Brick Category	Start Node MH19a End Node MH18 Total length 100 metres
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Scale 1:5.25 Direction Upstream	View via iTouch Live 	Download 
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Start Node Ref:MH19a | I/L : metres | Depth: 1.93 metres

Position	Code	Description	Photo	Type/Grade
0.00	MH	Start node type, manhole, reference MH19a	8675766	Comment / 0
0.00	WL	Water level 0% height/diameter	8675767	Comment / 0
				
43.11	SA	Survey abandoned - Remark: UTR Further	8675826	Comment / 0

End Node Ref:MH18 | I/L : metres | Depth: 2.13 metres

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 18/10/2023
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Start node type, manhole, reference MH19a



Water level 0% height/diameter



Survey abandoned - Remark: UTR Further

Job Number UM23-1730-FWC	Surveyed by (Operator) Elliot Raimbault	Base Unit WA33IWKDLA	Date 05/10/2023
1: Occurences without damage. For example, laterals, joints,etc. NO DEFECTS WERE DETECTED.			
2: Constructional deficiencies or occurences with insignificant influence to tightness, hydraulic or static pressure or pipe: Eg. wide joints, badly torched intakes, minor deformation of plastic pipes, minor erosions etc. REHABILITATION CAN BE SCHEDULED LONG-TERM.			
3: Constructional deficiencies diminishing static, hydraulic and tightness: Eg. untorched intakes, cracks, minor drainage obstructions such as calcite build ups, protruding laterals, minor damages to pipe wall, individual root penetrations, corroded pipe walls etc. REHABILITATION IS NECESSARY MEDIUM-TERM WITHIN 3 TO 5 YEARS.			
4: Constructional damages with insufficient static safety, hydraulic or tightness: Eg. axial/radial pipe bursts, pipe deformations, visually noticeable infiltration/exfiltration, cavities, in pipe-wall, severe protruding, laterals severe root penetrations, severe corrosion of pipe wall etc. REHABILITATION PROCEDURE IS URGENT AND HAS TO BE COMPLETED WITHIN 1 TO 2 YEARS. NECESSITY FOR EMERGENCY OPERATIONS HAS TO BE EXAMINED.			
5: Pipe is already or will shortly be impermeable: Eg. collapsed pipe, deeply rooted pipe or other drainage obstructions. Pipe loses water or danger of backwater in basements etc. REHABILITATION IS URGENT AND SHORT-TERM. IN ORDER TO PREVENT FURTHER DAMAGE, NECESSARY TEMPORARY SPOT REPAIR HAS TO BE CONDUCTED ON EMERGENCY LEVEL.			