

CCTV SURVEYS



HIGH PRESSURE JETTING



MAN ENTRY SURVEYS



5 SUFFOLK ROAD MALDON ESSEX CM9 6AX

Telephone: 07971 910370



CCTV REPORT

RELINING & REPAIRS



PILING SURVEYS



CHIMNEY SURVEYS

CLIENT	RANDALL SURVEYS LLP
LOCATION	CAMLEY STREET
DATE	26/05/2017
REF	071082
DVD No	001

GENERAL INFORMATION

Utility Surveys Ltd have been appointed by Randall Surveys LLP to undertake a Sewer Condition Survey at the location identified. This survey commenced on 26 May 2017.

CONTACT INFORMATION

SITE ADDRESS:	SITE CONTACT: N/A
CAMLEY STREET LONDON	CONTACT NO:
N1C 4PW	CONTACT NO.
	EMAIL:
OLIENT DETAIL O	CONTACT DAY D DAMANT
CLIENT DETAILS:	CONTACT: DAVID DAMANT
RANDALL SURVEYS LLP	00NTA 0T NO 04707 007500
HIGH STREET	CONTACT NO: 01787 227580
BURES	
SUFFOLK	EMAIL:
C08 5HZ	

UTILITY SURVEYS LTD CONTACT DETAILS

OFFICE	SIMON GARDINER
	07971 910370
RIG MANAGER	SIMON GARDINER

SITE DESCRIPTION

Site Description

WOODLAND NATURE TRAIL

Site Boundaries

CLEARLY DEFINED ON SUPPLIED DRAWINGS

SURVEY BRIEF

Sewer Condition Inspection Survey

The Purpose of the Sewer Condition Inspection Survey was to establish the location and extent of foul and/ or surface water drainage systems and to document their condition prior to any further works. In addition Utility Surveys Ltd have;

- Attempted to investigate all agreed areas, although if not all could be fully accessed (see Daily Record Sheet).
- Produced a report to establish the location and extent of foul and surface water drainage systems and to document their condition prior to any further works.
- Provided the basic information from which a remediation or management plan can be instigated.
- Highlighted the requirement for urgent action to repair or remediation works to the surveyed drainage system.
- Incorporated in the results any additional manholes/ drainage found, which may have been buried, obscured or not identified in the original scope of works.

Agreed Restrictions and Exclusions

This report is based upon a Sewer Condition Inspection Survey of an unfamiliar site.

During the course of the survey all reasonable efforts were made to identify and access all Manholes and foul/ surface drainage/ outfall, throughout the site.

Some installations/ areas may not been inspected due to access and or safety reasons (e.g. Wet Wells, Large Unventilated Tanks, Traffic Management Situations). Unless an accepted safe system of work has been devised.

Access may not have been gained to several areas of the site due to conditions outside the control of the client or contractor, any such areas have been documented within this report (see Daily Record Sheet).

Any diagrams/ CAD drawings in the report are not to be scaled and are illustrative only to indicate approximate locations.

Manhole covers will not be lifted if:

- a) There is a danger of damaging surrounding flooring or finishes.
- b) They are covered, i.e. under fitted carpets, flooring, tiling or paving etc.
- c) Under fittings, fixtures, fencing, equipment etc.

Buried manholes will be located, if possible, position marked. If instructed, excavated in soft ground only up to a depth of 350mm with temporary reinstatement.

No allowance has been made for any precleansing unless stated in the quotation.

Full and free access to all areas affected is to be arranged by the instructing party.

SURVEY TECHNIQUES

The areas set out within the survey brief underwent inspection for a Sewer Condition Inspection Survey each area within the agreed scope of works was surveyed for location extent and condition of foul and/ or surface water drainage systems and CCTV footage gathered for confirmation. Every reasonable effort was made to investigate all aspects of the drainage system. Additional photographs were taken where relevant to the inspection.

There were no deviations from the agreed scope of works.

This Sewer Condition Inspection Survey was carried out in accordance with the Utility Surveys Ltd documented 'in-house' procedure 820 'Code of Working Practice' based on National Sewerage Association guidance.

The Sewer Condition Inspection Survey Report states information recorded at the time of survey only, based on visual and CCTV assessment in accordance with sewer classification codings issued by WRC, incorporating the following inspection criteria:

CONDITION of pipe work LOCATION of pipe work EXTENT of the pipe work

A defect grade description has been provided for the identification of defective pipe work.

Changes to any of the above criteria shall necessitate the need for reassessment

These gradings and the reports can be used to form the basis of a planned preventative maintenance programme. This can be the subject of further discussions with our technical support team.

Utility Surveys Ltd 5 Suffolk Road, Maldon, Essex, CM9 6AX. Tel: 07971 910370				
Defect Grade Description				
Client: RANDALL SURVEYS LLP	Location: CAMLEY STREET LONDON	Reference: 071082		

1: Occurrences without damage: for example debris, laterals, joints etc.

NO STRUCTURAL DEFECTS WERE DETECTED.

2: Constructional deficiencies or occurrences with insignificant influence to tightness, hydraulic or static pressure of pipe: i.e. wide joints, badly constructed connections, minor deformation of plastic pipes, minor erosions etc.

REHABILITATION CAN BE SCHEDULED LONG-TERM.

3: Constructional deficiencies diminishing static, hydraulic and tightness: i.e. open joints, badly constructed connections, cracks, minor drainage obstructions such as calcide 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: i.e. axial/ radial pipebursts, 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 permeable: i.e. 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.



071082 CAMLEY STREET LONDON - CCTV Survey Report : 28/05/17

Name: UTILITY SURVEYS LIMITED

Contact : SIMON GARDINER
Location : 5 SUFFOLK ROAD

Town: MALDON
Region: ESSEX
Postcode: CM9 6AX

Tel:

Mobile: 07971910370

Email: simon@utilitysurveysltd.co.uk

Fax:

Client Information

Name: RANDALL SURVEYS LLP

Contact : DAVID DAMANT Location : HIGH STREET

Town: BURES
Region: SUFFOLK
Postcode: CO85HZ

Tel: 01787 227580

Mobile : Email : Fax :

Site Information

Name :

Contact:

Location: CAMLEY STREET

Town: LONDON

Region:

Postcode: N1C 4PW

Tel:
Mobile:
Email:
Fax:

Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0	l
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Graded defect count per section

This section shows the number of graded defects per individual survey. A grade 5 defect being serious and indicating more urgent repair. Grade 3-4 defects are less serious and are less urgent concerning repair. Grade 1-2 defects are relatively minor and could be monitored and/or repaired if thought necessary.

Section: 1 Start: F1 End: LAT A Road: CAMLEY STREET

Length: 6.66 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 06.66m	150	Vitrified Clay (i.e. all clayware)	3	0	0

Section: 2 Start: F1 End: F2 Road: CAMLEY STREET

Length: 30.73 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 30.73m	150	Vitrified Clay (i.e. all clayware)	1	0	0

Section: 3 Start: F1 End: MAIN Road: CAMLEY STREET

Length: 5.94 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 05.94m	150	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 4 Start: F2 End: LAT A Road: CAMLEY STREET

Length: 0.61 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 00.61m	100	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 5 Start: F2 End: LAT B Road: CAMLEY STREET

Length: 5.95 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 05.95m	100	Vitrified Clay (i.e. all clayware)	2	4	0

Section: 6 Start: F2 End: LAT C Road: CAMLEY STREET

Length: 3.19 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 03.19m	100	Vitrified Clay (i.e. all clayware)	3	0	0

Section: 7 Start: F2 End: LAT D Road: CAMLEY STREET

Length: 2.47 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 02.47m	100	Vitrified Clay (i.e. all clayware)	2	0	0

Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0	
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Section: 8 Start: F2 End: LATE Road: CAMLEY STREET

Length: 1.53 Use: Foul Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 01.53m	100	Vitrified Clay (i.e. all clayware)	2	0	0

Section: 9 Start: S1 End: LAT A Road: CAMLEY STREET

Length: 5.65 Use: Surface Water Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 05.65m	150	Vitrified Clay (i.e. all clayware)	0	0	0

Section: 10 Start: S1 End: MAIN Road: CAMLEY STREET

Length: 1.69 Use: Surface Water Depth: 0 Place: LONDON

From To	Dia	Material	G1 - 2	G3 - 4	G5
00.00m - 01.69m	150	Vitrified Clay (i.e. all clayware)	1	0	0



Section 1

Client:	Location (Street	City/To	own/Village	Cus	t Job Ref.	Surveyors Name:			Date:		
RANDALL SURVEYS LLP	CAMLEY ST	REET	LONDON				SIMON GARDINER		R	28/05/2017	
Start Node Ref:	F1	Finish No	Finish Node Ref:			LAT /	A Direction:	U	Heig	ht/Dia:	150
Start Node Depth:	C	Finish No	ode Depth:			(Use:	F	Shap	oe:	С
Start Node Coordinate:		Finish No	Finish Node Coordinate:				Material:	VC	Clea	ned	N
	1					1	•				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	6.66	

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	Position	Code	Description	CD	Pic	Grade 0m
	00.00m	МН	Start node type, manhole			0 —///
	00.00m	WL	Water level 0%			0 —//
	00.61m	JN	Junction 6:150mm Diameter		0_2	0 —
	02.01m	OJM	Open joint medium		0_3	2
	05.21m	OJM	Open joint medium		0_4	2 —
	05.27m	LRQ	Line of drain/sewer deviates right [quarter]			0 —\
	05.72m	OJM	Open joint medium		0_6	2 —
	05.98m	LLQ	Line of drain/sewer deviates left [quarter]			0 —
	06.66m	SA	Survey abandoned		0_99	0 ————————————————————————————————————

Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0	7
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F1	
00.00m	WL	Water level: 0% Height/Diameter	
00.61m	JN	Junction at 6 o'clock: 150mm Diameter BACKDROP	Image Provided - Ref: 0_2
02.01m	OJM	Open joint medium - Grade 2	Image Provided - Ref: 0_3
05.21m	OJM	Open joint medium - Grade 2	Image Provided - Ref: 0_4
05.27m	LRQ	Line of drain/sewer deviates right [quarter]	

Grade 1 Defects 0 Grade 2 Defe	cts 15 Grade 3 Defects	4 Grade 4 Defects	0	Grade 5 Defects	0]
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Pos	Code	Description	Image
05.72m	OJM	Open joint medium - Grade 2	Image Provided - Ref: 0_6
05.98m	LLQ	Line of drain/sewer deviates left [quarter]	
06.66m	SA	Survey abandoned BLANKED OFF	Image Provided - Ref: 0_9999 SURVEY ADARDONED BRANKED OFF



Section 2

Client:	Location (Street Name):		City/Town/Village	Cust Job Ref.	Surveyor	:	Date:		
RANDALL SURVEYS LLP	CAMLEY STREET		LONDON		SIMON GARDINER		R	28/05/2017	
Start Node Ref:	F1	Finish No	ode Ref:	F	2 Direction:	U	Heig	ht/Dia:	150
Start Node Depth:	0	Finish No	ode Depth:		Use:	F	Shap	oe:	С
Start Node Coordinate:		Finish No	ode Coordinate:		Material: VC Clea		ned	N	
		•			•		•		

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	30.73	

Position	Code	Description	CD	Pic	Grade 0m
00.00m	МН	Start node type, manhole			0 —///
00.00m	WL	Water level 5%			0 —//
00.50m	JN	Junction 6:150mm Diameter		1_2	0 —
13.10m	CN	Connection other than junction 12:100mm Diameter		1_3	0
13.19m	CC	Crack, circumferential 1-5		1_4	2
22.54m	CN	Connection other than junction 12:100mm Diameter		1_5	0
30.73m	MHF	Finish node type, manhole			0 —
					30.73m

Grade 1 Defects 0	Grade 2 Defects 15	Grade 3 Defects 4	Grade 4 Defects 0	Grade 5 Defects 0
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F1	
00.00m	WL	Water level: 5% Height/Diameter	
00.50m	JN	Junction at 6 o'clock: 150mm Diameter BACKDROP	Image Provided - Ref: 1_2
13.10m	CN	Connection other than junction at 12 o'clock: 100mm Diameter	Image Provided - Ref: 1_3
13.19m	СС	Crack, circumferential from 1 o'clock to 5 o'clock - Grade 2	Image Provided - Ref: 1_4



Pos	Code	Description	Image
22.54m	CN	Connection other than junction at 12 o'clock: 100mm Diameter	Image Provided - Ref: 1_5
30.73m	MHF	Finish node type, manhole F2	



Section 3

Cli	Location (Street Name):			City/T	own/Village	Cu	st Job Ref.	Surveyors Name:			Date:		
RANDALL S	CAMLEY STREET			LC	ONDON			SIMON GARDINER			28/05/2017		
Start Node Ref: F1				Finish Node Ref: MAIN					N Direction:	D	Heig	ht/Dia:	150
Start Node Depth: 0				Finish Node Depth: 0				Use:	F	Shap	oe:	С	
Start Node Coordinate:				Finish Node Coordinate:				Material:	VC	Clea	ned	N	
Drain Type	Lining Type	Lining Mat.	Yea	r Const.	Weather	Flow Cont.	Lenath	1	Remarks				

Position	Code	Description	CD	Pic	Grade 0m
00.00m	МН	Start node type, manhole			0 —///
00.00m	WL	Water level 5%			0 —//
00.40m	REM	General remark		2_2	0 —
05.70m	REM	General remark		2_3	0 —
05.94m	WRF	Finish node type, major connection without manhole			0 — 5.94m

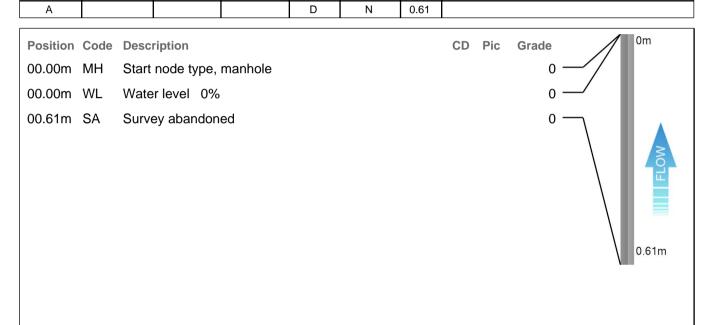


Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F1	
00.00m	WL	Water level: 5% Height/Diameter	
00.40m	REM	General remark ENTER VIA 100mm RODDING EYE	Image Provided - Ref: 2_2
05.70m	REM	General remark JOIN MAIN	Image Provided - Ref: 2_3
05.94m	WRF	Finish node type, major connection without manhole JOINS MAIN	



Section 4

Cli	Location (Street Name):			City/T	own/Village	Village Cust Job Ref.			Surveyors Name:			э:	
RANDALL S	URVEYS LLP	CAMLEY	STR	EET	LC	ONDON	SIMON GARDINER 28/0				28/05/2	28/05/2017	
Start Node Ref: F2				Finish Node Ref: LAT A					Direction	: U	Heig	ght/Dia:	100
Start Node Depth: 0				Finish Node Depth: 0				Use:	F	Sha	pe:	С	
Start Node Coordinate:				Finish Node Coordinate:					Material:	Material: VC Clea		aned	N
Drain Type	Lining Type	Lining Mat.	Yea	r Const.	Weather	Flow Cont.	Length	Remarks					



Grade 1 Defects 0 Grade 2 Defects	15 Grade 3 Defects	4 Grade 4 Defects	0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F2	
00.00m	WL	Water level: 0% Height/Diameter	
00.61m	SA	Survey abandoned SHARP BEND LEFT	



Section 5

Client:	Location (Street I	City/Tov	/n/Village	Cust Job Ref.	Surveyor	:	Date:						
RANDALL SURVEYS LLP	CAMLEY STR	EET	LON	IDON		SIMON GA	SIMON GARDINER			SIMON GARDINER 28/05		28/05/2	2017
Start Node Ref:	F2	Finish N	ode Ref:		LAT	B Direction:	U	Heig	ht/Dia:	100			
Start Node Depth:	0	Finish N	ode Depth:			0 Use:	F	Shap	oe:	С			
Start Node Coordinate:		Finish N	ode Coordina	nte:		Material:	VC	Clea	ned	N			
						•							

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.95	

Position Cod	e Description	CD	Pic	Grade 0m
00.00m MH	Start node type, manhole			0 —///
00.00m WL	Water level 0%			0 —////
00.40m LLH	Line of drain/sewer deviates left [half]			0 —///
00.40m R	Roots		4_3	2 —// /
00.85m JDI	Joint displaced large		4_4	3 —///
01.97m FC	Fracture circumferential 6-12		4_5	3 —//
02.28m JDI	Joint displaced large		4_6	3
03.77m JDI	Joint displaced large		4_7	3
03.90m LLC	Line of drain/sewer deviates left [quarter]			0
04.00m R	S1 Roots	S1	4_9	2 —
05.95m R	F1 Roots	F1	49	2 —
05.95m SA	Survey abandoned		4_99	0 0 5.95m

Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0	7
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F2	
00.00m	WL	Water level: 0% Height/Diameter	
00.40m	LLH	Line of drain/sewer deviates left [half]	
00.40m	R	Roots - Grade 2 MASS ROOTS AT JOINT 30%	Image Provided - Ref: 4_3
00.85m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 4_4
01.97m	FC	Fracture circumferential from 6 o'clock to 12 o'clock - Grade 3	Image Provided - Ref: 4_5

Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0]
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Pos	Code	Description	Image
02.28m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 4_6
			TE - LAT S 18 Sma POWA UPSTIZZU
03.77m	JDL	Joint displaced large - Grade 3	Image Provided - Ref: 4_7
03.90m	LLQ	Line of drain/sewer deviates left [quarter]	
04.00m	S1 R	Roots4m - 5.95m - Grade 2 MASS ROOTS 40%	Image Provided - Ref: 4_9 F2 - LAT B 100mm FOUL UPSTREAM
05.95m	F1 R	RootsDefect End - Grade 2 MASS ROOTS 40%	

Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0]
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Pos	Code	Description	Image
05.95m	SA	Survey abandoned UNABLE TO PASS MASS ROOTS	Image Provided - Ref: 4_9999



Section 6

Client:	Location (Street	City/T	own/Village	Cust	Job Ref.	Surveyors Name:			Date:			
RANDALL SURVEYS LLP	CAMLEY STF	REET	LC	ONDON			SIMON G	SIMON GARDINER			28/05/2017	
Start Node Ref:	F2	Finish N	ode Ref:			LAT C	Direction:	U	Heig	ht/Dia:	100	
Start Node Depth:	0	Finish N	ode Depth:			(Use:	F	Shap	oe:	С	
Start Node Coordinate:		Finish N	Finish Node Coordinate:				Material:	VC	Clea	ned	N	
		•				1	•					

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	3.19	

Position	Code	Description	CD	Pic	Grade 0m
00.00m	МН	Start node type, manhole			0 —//
00.00m	WL	Water level 0%			0 —//
00.50m	LRQ	Line of drain/sewer deviates right [quarter]			0 —//
00.50m	JDM	Joint displaced medium		5_3	2 —
01.67m	JDM	Joint displaced medium		5_4	2
01.70m	LRQ	Line of drain/sewer deviates right [quarter]			0 —
03.11m	R	Roots		5_6	2 —
03.19m	SA	Survey abandoned		5_99	0

Grade 1 Defects 0	Grade 2 Defects 15	Grade 3 Defects 4	Grade 4 Defects 0	Grade 5	Defects 0
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F2	
00.00m	WL	Water level: 0% Height/Diameter	
00.50m	LRQ	Line of drain/sewer deviates right [quarter]	
00.50m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 5_3
01.67m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 5_4 F2 - LAT @ 100 mm FOUL UPSTREAM
01.70m	LRQ	Line of drain/sewer deviates right [quarter]	
03.11m	R	Roots - Grade 2 MASS ROOTS 70%	Image Provided - Ref: 5_6



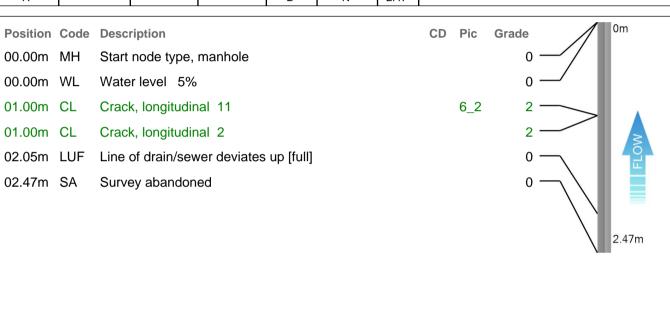
Pos	Code	Description	Image
03.19m	SA	Survey abandoned UNABLE TO PASS MASS ROOTS	Image Provided - Ref: 5_9999



Section 7

Client:	Location (Street	City/To	own/Village	Cust	Job Ref.	Surveyor	:	Date	e:		
RANDALL SURVEYS LLP	SURVEYS LLP CAMLEY STR			ONDON			SIMON GARDINER			28/05/2017	
Start Node Ref:	F2	Finish No	ode Ref:			LAT D	Direction: U Heig		Heig	ht/Dia:	100
Start Node Depth:	0	Finish No	ode Depth:			(Use:	F	Shap	oe:	С
Start Node Coordinate:		Finish No	ode Coordi	nate:			Material:	Material: VC C		ned	N
						ı					
							_				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	2.47	





Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F2	
00.00m	WL	Water level: 5% Height/Diameter	
01.00m	CL	Crack, longitudinal at 11 o'clock - Grade 2	Image Provided - Ref: 6_2
01.00m	CL	Crack, longitudinal at 2 o'clock - Grade 2	
02.05m	LUF	Line of drain/sewer deviates up [full]	
02.47m	SA	Survey abandoned SHARP BEND UP	

ſ	Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0	٦
ı						1 1	1	1 1	.		- 1



Section 8

Cli	ent:	Location (Street Name):			City/T	City/Town/Village Cust Job Ref.			Surveyo	Date:			
RANDALL SURVEYS LLP CAMLEY STR				EET	LC	ONDON			SIMON G	ARDINE	R	28/05/2	2017
Start Node Ref: F2 Finish Node Ref								LAT E	Direction:	U	Heig	ht/Dia:	100
Start Node [Depth:		0	Finish N	ode Depth:			(Use:	F	Sha	oe:	С
Start Node (Finish Node Coordinate:				Material: VC Clear		ined	N					
		•					•	•		•			
Drain Type	Lining Type	Lining Mat.	Yea	r Const.	Weather	Flow Cont.	Length		R	emarks			

1.53

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	Position	Code	Description	CD	Pic	Grade 0m
	00.00m	МН	Start node type, manhole			0 —//
	00.00m	WL	Water level 0%			0 —
	00.89m	JDM	Joint displaced medium		7_2	2 —
	00.90m	DES	Settled deposits fine 10%			2
	01.48m	LUF	Line of drain/sewer deviates up [full]			0 —
	01.53m	SA	Survey abandoned			0 —\
						1.53m
						\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Grade 1 Defects 0 Grade 2 Defects	15 Grade 3 Defects	4 Grade 4 Defects	0	Grade 5 Defects	0	
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole F2	
00.00m	WL	Water level: 0% Height/Diameter	
00.89m	JDM	Joint displaced medium - Grade 2	Image Provided - Ref: 7_2 F2 - HAT 8 100 mm FOUL UPSTREAM 0.800
00.90m	DES	Settled deposits fine: 10% Cross sectional area loss - Grade 2	
01.48m	LUF	Line of drain/sewer deviates up [full]	
01.53m	SA	Survey abandoned SHARP BEND UP	

ſ	Grade 1 Defects	0	Grade 2 Defects	15	Grade 3 Defects	4	Grade 4 Defects	0	Grade 5 Defects	0	٦
ı						1 1	1	1 1	.		- 1



Section 9

Client:	Location (Street	t Name):	City/Town/Village		Cus	st Job Ref.	Surveyor	rs Name	:	Date:	
RANDALL SURVEYS LLP	REET	EET LONDON				SIMON GARDINER			28/05/2017		
Start Node Ref:	S	Finish N	ish Node Ref:			LAT /	A Direction: U I		Heig	ht/Dia:	150
Start Node Depth:	(Finish N	ode Depth:	ode Depth:		(0 Use:	S	Shap	oe:	С
Start Node Coordinate:		Finish N	ode Coordinate:				Material:	Material: VC		Cleaned	
		•				1	•				

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	N	5.65	

Position	Code	Description	CD	Pic	Grade 0m
		•	CD	ric	
00.00m	IVIH	Start node type, manhole			0 —//7
00.00m	WL	Water level 40%			0 —//
00.40m	CUW	S1 Loss of vision, camera under water	S1		0 —//
01.00m	JN	Junction 2:100mm Diameter			0 —
05.65m	CUW	F1 Loss of vision, camera under water	F1		0 —
05.65m	SA	Survey abandoned			0 —\
					\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
					5.65m



Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S1	
00.00m	WL	Water level: 40% Height/Diameter	
00.40m	S1 CUW	Loss of vision, camera under water0.4m - 5.65m	
01.00m	JN	Junction at 2 o'clock: 100mm Diameter	
05.65m	F1 CUW	Loss of vision, camera under waterDefect End	
05.65m	SA	Survey abandoned BLANKED OFF	

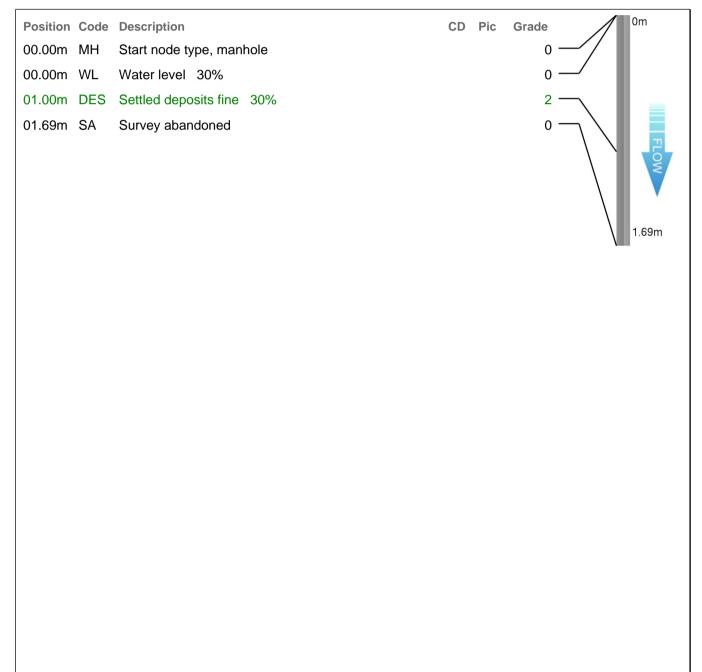
Grade 1 Defects 0 Grade 2 Defects	15 Grade 3 Defects 4 Grade 4 Defects	s 0 Grade 5 Defects 0
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Section 10

Client:	Location (Street Name):		City/Town/Village Cus		Cust Jo	ob Ref.	Surveyors	Date	e:		
RANDALL SURVEYS LLP	ANDALL SURVEYS LLP CAMLEY STR		EET LONDON				SIMON GARDINER		R	28/05/2017	
Start Node Ref:	S1	Finish No	ode Ref:			MAIN Dir		D	Heig	ht/Dia:	150
Start Node Depth:	0	Finish No	ode Depth:			C	Use:	S	Shap	e:	С
Start Node Coordinate:	Finish Node Coordinate:			Material: VC Cle		Clea	ned	N			
				<u> </u>							

Drain Type	Lining Type	Lining Mat.	Year Const.	Weather	Flow Cont.	Length	Remarks
Α				D	Ν	1.69	



Grade 1 Defects 0 Grade 2 Defects 15 Grade 3 Defects 4	Grade 4 Defects 0 Grade 5 Defects 0	٦
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Pos	Code	Description	Image
00.00m	МН	Start node type, manhole S1	
00.00m	WL	Water level: 30% Height/Diameter	
01.00m	DES	Settled deposits fine: 30% Cross sectional area loss - Grade 2	
01.69m	SA	Survey abandoned UNABLE TO PASS DEBRIS	

MANHOLE INSPECTION REPORT

UTILITY SURVEYS LTD

5 SUFFOLK ROAD MALDON **ESSEX** CM9 6AX

MANHOLE INSPECTION SURVEY

LOCATION: CAMLEY STREET LONDON JOB REF: 071082

CLIENT: RAN	IDALL SURVEYS LLP		DATE: 26/05/2017
MH No. F1 DEPTH. 3.08 COVER. SH CONSTRUCTION. Co Ring REMARKS.	150Ø (1.50) 150Ø (1.58) Running 100Ø Trap 150Ø RE		
MH No. F2 DEPTH. 0.70 COVER. N/A CONSTRUCTION. Br REMARKS. No Cover	100Ø 100Ø 100Ø 150Ø		
MH No. F3 DEPTH. 1.46 COVER. RH CONSTRUCTION. Co Seg REMARKS.	100Ø NON RETURN 100Ø FLAP		
MH No. S1 DEPTH. 1.72 COVER. SH CONSTRUCTION. Co Ring REMARKS.	150Ø 150Ø		
KEY: C	- Circular L - Liç	ght Duty	Co - Concrete

S - Square

T - Triangular

M - Medium Duty

H - Heavy Duty

Br - Brick

R - Rectangular

- A, Copies of site hand written Daily Record Sheets
- B, Annotated Site Drawings

CCTV Sewer Survey - Daily Record Sheet

Date	261	05/	2017	Job No	971087	2.
Client	RANDAM SURVEYS HAP UTLITYSURVEYSITD.					
Site Address	s C	An	LEY ?	STRE	ET	OTTEN TOOM VE TOUR.
	Le	200	312			5 Suffolk Road
	2	IC.	APW			Maldon Essex
Rig Manage	s GAF	RDINER		erative M	. CAMPBELL	CM9 6AX
						Tel: 07971910370
Manl	hole	Causas				
Start	Finish	Sewer dia.	Recorded Metreage	Survey Abandoned	Remarks	
FI	LATA	ISO	6-66	/	BLANK:	20 off
FL	F2	150	30-73			
Fi	MAIN	150	5-94		TSOLAS	MAIN
F2_	LATA	100	0-61		SHARP	BENDLEFT
F2	LATB	100	5-9.5		MASS	Neo (5
1-2	LATC	100	3-19		MASSI	20015
F2	LATO	100	2-47		SHARP	s=no up
F2	LATE	100	1-53	-	SHARP	BENDUP
5 L	LATA	150	5-65		BLANKE	9 OF
Si	MAIN	150	1-69		DEBR	15
		TOTAL				
Standing Tir	ne			Met	erage check X	Length OK
Reason for s	standing time	е				
			OWA	T-90 1-	SPIPE	
Remarks F3 50% WATER INPILE						
Special Instructions; Site Contact – Checked						

