

SITE INVESTIGATION FACTUAL REPORT

Report No: SI-595596

Client: Crawford Claims Management

Site: The Elms, Badwell Road, Walsham-le-Willows

Suffolk

Client Ref: SU2205985

Date of Visit: 25/04/2023







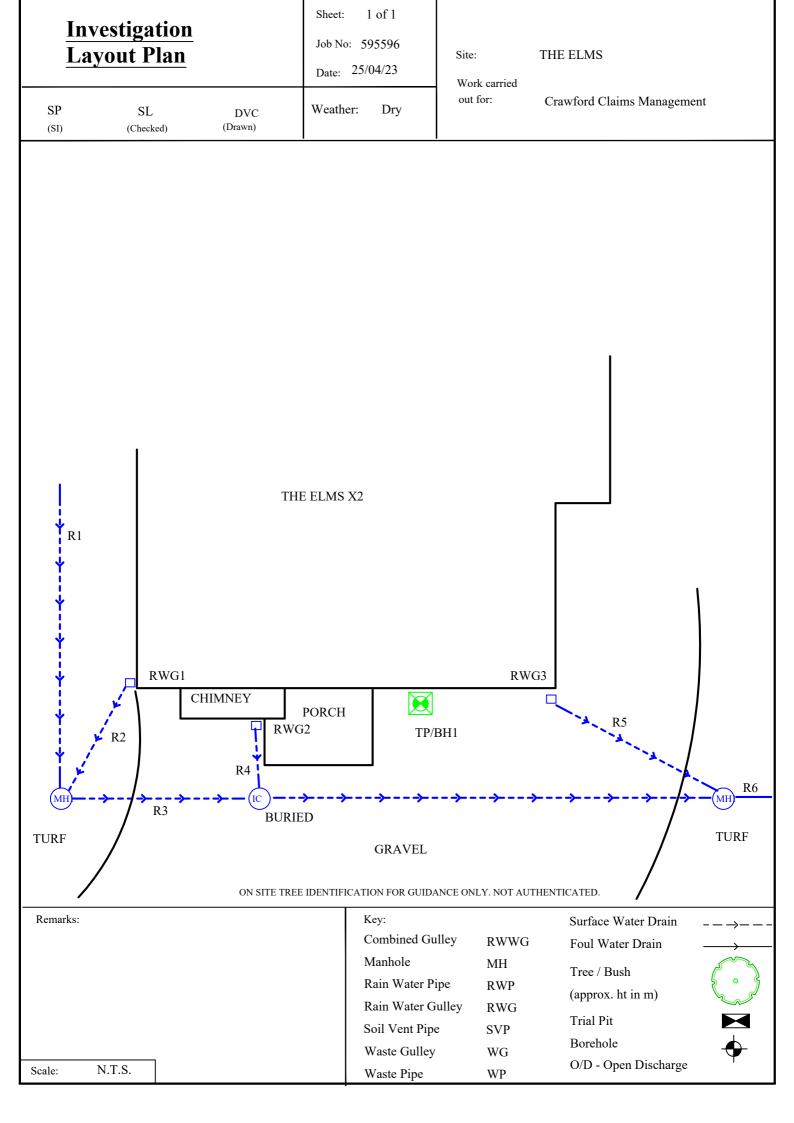








Home Emergency Response - Subsidence Investigation - Drainage Services - Crack & Level Monitoring - Property Video Surveys





TEST REPORT: Trial Pit

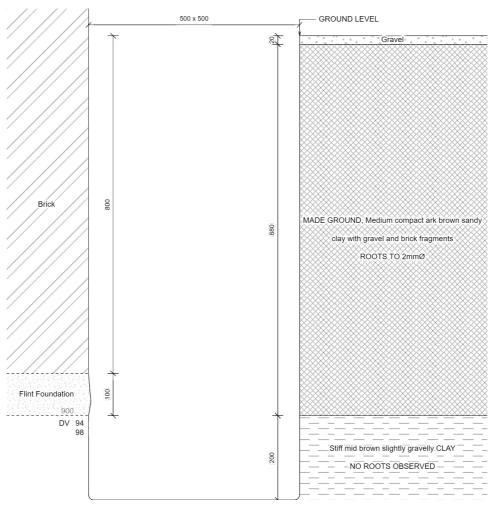
REPORT NUMBER: C1077197 / 253260.1.1.1

 TRIAL PIT REF:
 TP1
 DATE:
 11/05/2023

 CLIENT:
 Crawford & Co
 SITE:
 The Elms

 JOB NO:
 595596
 WEATHER:
 Dry

EXCAVATION METHOD: Hand tools



For Strata below 1100mm see Bore Hole log

Key:

D Small disturbed sample J Jar sample
 B Bulk disturbed sample V Pilcon vane (kPa)
 W Water sample M Mackintosh probe

TDTD Too dense to drive

Remarks:

Test results reported relate only to the items tested.

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The laboratory does not apply a conformity statement to test reports as standard, unless specifically requested by the customer.

For and on behalf of CTS Scott Alger - Lab

Suze.

Approved Signatory Report date 11-May-23

0343 227 8545 enquiries@constructiontesting.co.uk www.constructiontesting.co.uk END OF REPORT Construction Testing Solutions Ltd. Registered in England No. 05998333

	D I-	-1-	4		Sheet:	1 of 1	Site:	THE ELMS				
l	Boreh	iole	1		Job No:	595596						
Boring M	loth od.	Hand Auger			Date:	25/04/2023	. .	C	N-1 B.4-			
Diameter		75	Weather:	dry	Ground Level:		Client:	Crawford C	laims ivia	nageme	nt	
Depth	(,.	1,,,	wcather.	Soil Description						Sami	oles and	Tests
(m)								Thickness	Legend			Result
	See Trial	Pit						1.10	J	·		
1.10	Stiff oran	ge-brown, sli	ghtly gravelly	/ CLAY				0.60				
									0			
									0	1.50	DV	104
									$\frac{1}{2}$	1.30	DV	104
1.70				End of BH								100
						T						
Remarks:			_			Кеу:					То	Max
BH ends	at 1.7m, to	oo stiff to hand	auger. BH dry	and open completion, no re		D - Disturbed Sa	mple				Depth	Dia
						B - Bulk Sample	lo.	Poots		ı	(m)	(mm)
						W - Water Samp J - Jar Sample	iie	Roots Roots				
						V - Pilcon Shear	Vane (kPa					
						M - Mackintosh		Depth to W	/ater (m)			
						TDTD - Too Dens						
Logged:		SP	AM	Checked:			V1.0 28/0				N.T.S.	-



LABORATORY REPORT



Contract Number: PSL23/3315

Report Date: 31 May 2023

Client's Reference: 595596

Client Name: CET Property Assurance(Crawford Claims MGMT)

Contract Title: The Elms

Date Received: 5/5/2023 Date Commenced: 5/5/2023 Date Completed: 31/05/2023

Notes: Opinions and Interpretations are outside the UKAS Accreditation

A copy of the Laboratory Schedule of accredited tests as issued by UKAS is attached to this report. This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced other than in full, without the prior written approval of the laboratory.

Checked and Approved Signatories:

L Knight R Berriman S Royle
(Assistant Laboratory Manager) (Associate Director) (Laboratory Manager)

A Watkins S Eyre A Fry
(Managing Director) (Senior Technical Coordinator) (Section Manager)

Page 1 of

5-7 Hexthorpe Road,

Hexthorpe, Doncaster, DN4 0AR

Tel: 01302 768098

Email: rberriman@prosoils.co.uk awatkins@prosoils.co.uk

Laboratory Summary Results

Our Ref: 595596 Date Sampled: 25/04/2023

Location: The Elms

Client: CET Property Assurance (Crawford Claims Management)

Address: CET, Unit 4, Boundary Court, Willow Farm Business Park, Castle Donington, DE74 2NN

TP/BH No	Depth (m)	Туре	# Moisture Content	# Soil Fraction > 0.425mm	# Liquid Limit	# Plastic Limit	~ Plasticity Index	~ Liquidity ³ Index	~ Modified * Plasticity Index	~ Soil * Class	# Filter Paper Contact Time	# Soil Sample Suction	# Oedometer Strain	~ Estimated * Heave Potential (Dd)	Shear Vane	pH Value	Sulphate SO ₃ (g/l) *	* Class
NO	(III)		(%)[1]		(%)[3]	(%)[4]	(%)[5]	[5]	(%)[6]	[7]		(kPa) [8]	[9]	(mm)[10]	(kPa) [11]			
1	U/S 0.90	D	22	8	50	24	26	-0.09	24	СН					96			
	1.5	D	23	9	57	25	32	-0.05	29	СН					105			
																		1

Test Methods / Notes

[1] BS 1377: Part 2: 1990, Test No 3.2

[2] Estimated if <5%, otherwise measured

[3] BS 1377: Part 2: 1990, Test No 4.4
[4] BS 1377: Part 2: 1990, Test No 5.3

[4] BS 1377: Part 2: 1990, Test No 5.3[5] BS 1377: Part 2: 1990, Test No 5.4

[6] BRE Digest 240: 1993

[7] BS 5930: 2018: Figure 8 - Plasticity Chart for the classification of fines soils

[8] Building Research Establishment Information Paper 4/93

[9] In Accordance with BS 1377-5: 1990: Clause 3

[10] Estimated Heave Potential (Dd)

[11] Values of shear strength were determined in situ by CTS using

a Pilcon hand vane or Geonor vane (GV).

[12] BS 1377: Part 3: 2018 + A1 2021 Clause 4 - Tested By CTS Leicester

[13] BS 1377: Part 3: 2018 + A1 2021 Clause 12 - Tested By CTS Leicester

[14] Sulphate content as SO3 as required by BS 1377: Part 3: 1990 has been provided for

information purposes - Tested By CTS Leicester

[15] BS 1377: Part 3: 2018 + A1 2021 Clause 7.6 - Tested By CTS Leicester

Note that if the SO4 content falls into the DS-4 or DS-5 class, it would be prudent to consider the sample as falling into the DS-4M or DS-5M class respectively unless water soluble magnesium testing is undertaken to prove otherwise.

[16] BRE Special Digest One (Concrete in Aggressive Ground) August 2005

PSD Chart - BS 1377: Part 2: 1990, Test No 9.2

 \sim Calculations performed using subcontracted data.

* These tests are not UKAS accredited

These tests have been subcontracted and carried out by PSL (Part of the Phenna Group)
Full reports can be provided upon request.

Test results reported relate only to the items tested.

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Opinions and interpretations expressed herein are outside of the scope of UKAS accreditation.

Construction Testing Solutions Ltd - Lawness Barns, Mountnessing Road, Billericay, Essex, CM12 0TS

Version: BH V1 SUBCON - 28.03.2023

Key D

Disturbed sample (small)

Date Received:

Date of Report:

Date Tested:

28/04/2023

28/05/2023 31/05/2023

Disturbed sample (bulk)

** ** 1 1 1

Undisturbed sample

Groundwater sample

NP Essentially Non-Plastic by inspection

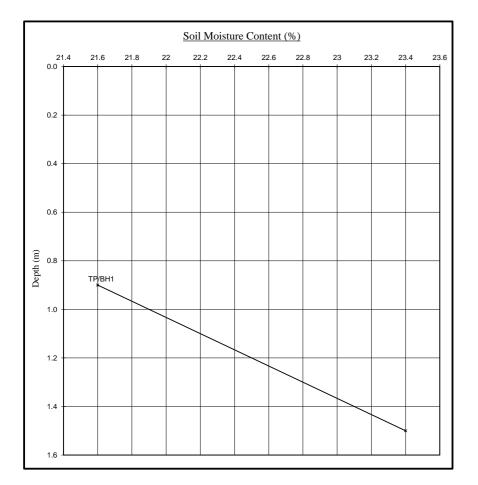
S Underside of Foundation

J/S Underside of Foundatio

Moisture Content Profiles

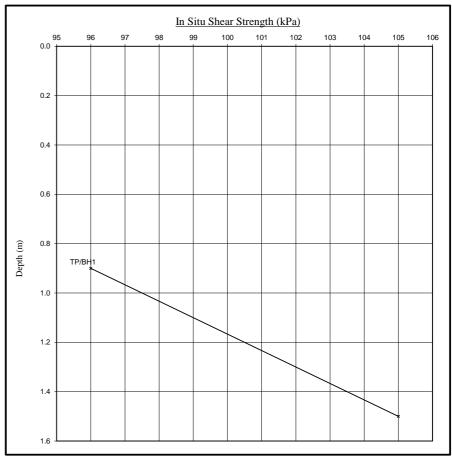
Our Ref: 595596 Location: The Elms

Work carried out for: CET Property Assurance (Crawford Claims Management)



Shear Strength Profiles

Date Sampled: 25/04/2023 Date Received: 28/04/2023 Date Tested: 28/05/2023 Date of Report: 31/05/2023



2. Unless specifically noted the profiles have not been related to a site datum.

- 1. Unless otherwise stated, values of Shear Strength were determined in situ by
- CTS using a Pilcon Hand Vane the calibration of which is limited to
- a maximum reading of 130 kPa.
- 2. Unless specifically noted the profiles have not been related to a site datum.

^{1.} If plotted, 0.4 LL and PL+2 (after Driscoll, 1983) should only be applied to London Clay (and similarly overconsolidated

				1		_					
		Sheet:		Site:	THE ELMS						
Coding Sheet			Job No.:	595596							
				Date:	25/04/2023	Client:	CRAWFORD CLAIMS MANA	GEMENT			
Run:	1										
From:		MI	H1	Invert Lev	/el:	825	Direction:	U/S			
To:		U,	/S	Invert Lev	/el:		Function:	S/W			
Pipe Mater	ial:	P۱	/C	Pipe Dia:		100					
Water/Pres	ssure Te	st:		Drain Bre	ak-In:	No	Gully Condition:				
Distance	Code	Clocl	k Ref	Dia	Intru	sion	Shared Run:	No			
(m)		at	to	mm	%	mm	If Shared How:				
0.00	ST						Remarks	Surface Material	Length (m)		
0.00	WL				10		THROUGHOUT				
11.00	FH						REACHED U/S	TURF			
Comments	:										
Run:	2			7			¬				
From:		MI		Invert Level:		825	Direction:	U/S			
To: RWG1			Invert Lev	/el:		Function:	S/W				
Pipe Material:		P\	/C	Pipe Dia:		100	_				
Water/Pres				Drain Break-In:		No	Gully Condition:	As Built			
Distance	Code	Clock	k Ref	Dia	Intru	sion	Shared Run:	No			
(m)		at	to	mm	%	mm	If Shared How:				
0.00	ST						Remarks	Surface Material	Length (m)		
5.80	FH						REACHED RWG1				
Comments	:										
Run:	3										
			111	Invert Lev	/el:	825	Direction:	D/S			
		І мі	пι		1			s/W			
From:		MI MI		⊣			-	I S/W			
From: To:	·ial:	MI	H2	Invert Lev		800	Function:	S/W			
From: To: Pipe Mater		MI P\	H2	Invert Lev Pipe Dia:	vel:	800 100	Function:	S/W			
From: To: Pipe Mater Water/Pres	ssure Te	MI P\ st:	H2 /C	Invert Lev Pipe Dia: Drain Bre	vel: ak-In:	800 100 No	Function: Gully Condition:				
From: To: Pipe Mater Water/Pres Distance		MI P\ st: Clock	H2 /C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intru	800 100 No sion	Function: Gully Condition: Shared Run:	S/W			
From: To: Pipe Mater Water/Pre: Distance (m)	ssure Te	MI P\ st:	H2 /C	Invert Lev Pipe Dia: Drain Bre	vel: ak-In:	800 100 No	Function: Gully Condition: Shared Run: If Shared How:	No	Length (m)		
From: To: Pipe Mater Water/Pre: Distance (m) 0.00	Code ST	MI P\ st: Clock	H2 /C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intru %	800 100 No sion	Function: Gully Condition: Shared Run: If Shared How: Remarks		Length (m)		
From: To: Pipe Mater Water/Pre: Distance (m) 0.00 5.20	Code ST WL	MI P\ st: Clock	H2 /C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intru	800 100 No sion	Function: Gully Condition: Shared Run: If Shared How: Remarks Water level	No Surface Material	Length (m)		
From: To: Pipe Mater Water/Pre: Distance (m) 0.00 5.20 6.10	Code ST WL IC	MI P\ st: Clock	H2 /C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intru % 10	800 100 No sion	Function: Gully Condition: Shared Run: If Shared How: Remarks Water level BURIED IC	No	Length (m)		
From: To: Pipe Mater Water/Pre: Distance (m) 0.00 5.20	Code ST WL	MI P\ st: Clock	H2 /C k Ref	Invert Lev Pipe Dia: Drain Bre Dia	vel: ak-In: Intru %	800 100 No sion	Function: Gully Condition: Shared Run: If Shared How: Remarks Water level	No Surface Material	Length (m)		

Run:	4	<u> </u>		_						
From:		RWG2		Invert Lev	Invert Level:		Direction:	D/S		
To:			IED IC	Invert Level:			Function:	S/W		
Pipe Materi	ial:	P۱	VC	Pipe Dia:		100				
Water/Pres	sure Te	st:		Drain Break-In:		No	Gully Condition:	As Built		
Distance	Code	Cloc	k Ref	Dia	Intrus	sion	Shared Run:	No		
(m)		at	to	mm	%	mm	If Shared How:			
0.00	ST						Remarks	Surface Material	Length (m)	
4.20	FH						REACHED RWG2			
Comments:	:						•			
Run:	5									
From:		М	1H2	Invert Lev	rel:	800	Direction:	U/S		
To:		RV	VG3	→	Invert Level:		Function:	S/W	,	
Pipe Materi	ial:	P۱	VC	Pipe Dia:	Pipe Dia:		7	<u> </u>		
Water/Pres		st:		Drain Break-In:		100 No	Gully Condition:	As Built		
Distance	Code	Clock Ref		Dia Intrus			Shared Run:	No		
(m)		at	to	mm	%	mm	If Shared How:			
0.00	ST			†			Remarks	Surface Material	Length (m)	
6.70	FH		\vdash	1			REACHED RWG3		+	
Comments:						<u> </u>				
Run:	6									
From:		М	1H2	Invert Lev	/el:	800	Direction:	D/S		
To:)/S	Invert Lev			Function:	S/W		
Pipe Materi	ial:		VC	Pipe Dia:		100		-,		
Water/Pres		st:	Γ	Drain Brea	ak-In:	No	Gully Condition:			
Distance	Code		k Ref	Dia	Intrus		Shared Run:	No		
(m)		at	to	mm	%	mm	If Shared How:			
0.00	ST			†		Ī	Remarks	Surface Material	Length (m)	
5.00	FH		<u> </u>				REACHED D/S		+	
Comments:	 :						, I	, <u> </u>		
						-				
l										

o: ítao:	Crawford Claims Management	Client Ref:	595596	
iite:	The Elms	Claim No: Date:	23-May-23	
	ESTIMATE			
tem	No recommendations to the drainage surveyed.	-		Amount
Notes				
	I runs and off boundary pipe-work may be the responsibility of the water authority.	Total		£0.00
Condition Grade		plus VAT @20%		£0.00
B - Cracks and fra	ound with no leakage evident. actures observed.	Total + VAT		£0.00
C - Structurally ur		r Standard Terms and Conditions		
	Quotation is binding only if accepted within 28 days from date of issue and is subject to our The price qualification notes, stated on the drainage solutions schedule of rates, CET Structures Ltd undertakes to return to site free of charge to carry out remedial work to the period of 2 months from the date of this invoice. The company standard charge rates will a requested be unrelated to the said repairs.	apply to this quotation.		

CET STRUCTURES LTD TERMS AND CONDITIONS

Site:- The Elms

Client Ref:-

Client:- Crawford Claims Management Job No.:- 595596

Attention of:- Claim No:-

Date:- 23-May-23

General Terms and Conditions

On site parking is a prerequisite of any drain repair contract. This quotation is to the addressee only and should not be forwarded unless prior agreement is obtained from CET Structures Ltd. Every effort will be made to match existing surfaces however, there will be evidence of excavation works in certain circumstances.

- 2 The rates do not include for excavation of surfaces other than soft ground or concrete < 100mm thick; reinstatement other than concrete <100mm thick; internal excavations; reinstatement >750mm in width; excavation of depths greater than 1.2m; reinforced concrete.
- 3 CET's standard soakaway that is priced on the agreed alliance schedule of drainage rates is constructed to dimensions specified in the NHBC Guidelines for small soakaways. The soakaway is generally located 5m from any foundations (should site constraints permit) and is constructed to provide adequate short term surface water storage and percolation into surrounding ground. This small 1m3 soakaway is usually of sufficient capacity to accommodate average rainfall from an average surface area of roof space, however in extreme weather conditions and /or larger than average roof surface area feeding the soakaway, surcharging may occur. Alternative designs and prices are available at a cost along with percolation testing. Certain ground conditions may not be suitable for soakaway design due to low permeability and this information is not always readily available.

Notes

For excavation and reinstatement of any steps, will be done on day work rate.

With a minimum of 4 hours. Materials at cost plus 25%.

Any obstacles, shrubs & plants that are located in the working area will need to be removed by others to allow for these works

Water Authority Sewer Condition Codes

L	Draken nine et (er frem 4-) -lalade	IAI	Junction at alglack diameter mm
В	Broken pipe at (or from to) o'clock	JN JX	Junction ato'clock, diametermm Junction defective at o'clock, diameter mm
BR	Branch Major	LC	·
CC CL	Crack longitudinal @o'clock	LD	Lining of sewer changes/starts/finishes at this point Line of sewer deviates down
CM	Crack longitudinal @ o'clock	LL	
	Cracks multiple from to o'clock		Line defeat at (or from to) closely
CN	Connection at o'clock, diameter mm	LN	Line defect at (or from to) o'clock
CNI	Connection at o'clock, diameter mm, intrusion mr Camera under water		Line of sewer deviates right
		LU	Line of sewer deviates up
CXI	Connection defective at o'clock	MB MC	Missing bricks at (or from to) o'clock Material of sewer changes at this point
CXI	Connection defective at o'clock, diameter mm,		Manhole/node
_	intrusion mm Deformed sewer %	MH MM	
D			Mortar missing medium at (or from to) o'clock
DB	Displaced bricks at (or from to) o'clock	MS	Mortar missing surface at (or from to) o'clock
DC	Dimension of sewer changes at this point	MT	Mortar missing total at (or from to) o'clock
DE	Debris (non silt/grease) % cross-sectional loss	OB	Obstruction % height/diameter loss
	Debris grease % cross-sectional area loss Debris silt % cross-sectional area loss	OJL	Open joint large Open joint medium
		PC	•
DI	Dropped invert, gap mm Encrustation heavy from to o'clock % cross-sectional	PC	Length of pipe forming sewer changes at this point, new lengthmm
LIIJ	area loss (at joint)	RFJ	Roots fine (at joint)
L	` '	RMJ	
	Encrustation light from to o'clock% Encrustation medium from to o'clock %, cross-section		Roots mass % cross-sectional area loss (at joint) Roots tap (at joint)
LIVIS	area loss (at joint)	SA	Survey abandoned
FSH	Scale heavy % cross-sectional area loss from to	_	Shape of sewer changes at this point
-511	o'clock	SSL	Surface damage, spalling large at (or from to)
FSI	Scale light from to o'clock	JJL	o'clock
	Scale medium % cross-sectional area loss from to.	SSM	
	o'clock	OOM	o'clock
FC	Fracture circumferential from to o'clock	SSS	
FL	Fracture longitudinal at o'clock		o'clock
FΜ	Fractures multiple from to o'clock	SWL	Surface damage, wear large at (or from to)
GO	General observation at this point		o'clock
GP	General photograph number taken at this point	SWN	Surface damage, wear medium at (or from to)
Н	Hole in sewer at o'clock		o'clock
IDJ	Infiltration dripper at (or from to) o'clock (at joint)	SWS	Surface damage, wear slight at (or from to)
IGJ	Infiltration gusher at (or from to) o'clock (at joint)		o'clock
IRJ	Infiltration runner at (or from to) o'clock (at joint)	٧	Vermin (rats and mice)
ISJ	Infiltration seeper at (or from to) o'clock (at joint)	WL	Water level % height/diameter
JDM	Joint displaced medium	X	Sewer collapsed % cross-sectional area loss
JDL	Joint displaced large	FH	End of survey