



Project

Project Name: TRINITY SCHOOL, BARNSELEY
Project Date: 21/09/2021
Inspection Standard: MSCC5 Sewers & Drainage GB (SRM5 Scoring)

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TRINITY SCHOOL, BARNSELY		21/09/2021

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Project Information

Project Name	Project Number	Project Date
TRINITY SCHOOL, BARNSELY		21/09/2021

Client

Company: CURTINS
Contact: TOMAS O'LOINGSIGH
Street: 56 THE ROPEWALK
Town or City: NOTTINGHAM
County: NOTTINGHAMSHIRE
Post Code: NG1 5DW

Site

Company: TRINITY SCHOOL
Street: KERESFORTH CLOSE
Town or City: BARNSELY

Contractor

Company: SUB GROUP LTD
Contact: JOE WALSHAW
Street: KING GEORGE SQUARE
Town or City: DONCASTER
County: SOUTH YORKSHIRE
Post Code: DN3 1PQ
Phone: 01302 880537
Email: info@sub-group.co.uk

Scoring Summary

Project Name
TRINITY SCHOOL, BARNSELY

Project Number

Project Date
21/09/2021

Structural Defects

- Grade 3: Best practice suggests consideration should be given to repairs in the medium term.
- Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.
- Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
1	138X	3	Fracture, circumferential at joint from 3 o'clock to 9 o'clock
10	146X	3	Multiple defects
11	146AX	3	Fracture, circumferential at joint from 3 o'clock to 9 o'clock

Service / Operational Condition

- Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.
- Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.
- Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
4	EX3X	4	Joint displaced, large
5	EX5X	5	Roots, mass, 70% cross-sectional area loss
6	EX6X	3	Roots, mass, 15% cross-sectional area loss
9	EX4X	3	Joint displaced, medium
10	146X	5	Multiple defects
14	137BX	5	Roots, mass, 20% cross-sectional area loss

Abandoned Surveys

Section	PLR	Description
2	137X	Survey abandoned
5	EX5X	Survey abandoned
7	EX7X	Survey abandoned
11	146AX	Survey abandoned
14	137BX	Survey abandoned

Information

These scoring summaries are based on the SRM grading from the WRc.

Section Profile

Project Name
TRINITY SCHOOL, BARNSELY

Project Number

Project Date
21/09/2021

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
4	EX3	EX4	21/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	26.60 m	26.60 m
9	EX4	NODE	21/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	7.40 m	7.40 m

Total: 2 Inspections x Circular 100 mm = 34.00 m Total Length and 34.00 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
8	EX8	EX2	21/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	1.00 m	1.00 m

Total: 1 Inspection x Circular 150 mm = 1.00 m Total Length and 1.00 m Inspected Length

Circular, 225 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
3	EX1	EX2	21/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	31.20 m	31.20 m
10	146	146A	23/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	77.80 m	77.80 m

Total: 2 Inspections x Circular 225 mm = 109.00 m Total Length and 109.00 m Inspected Length

Circular, 300 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	138	138A	21/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	51.70 m	51.70 m

Total: 1 Inspection x Circular 300 mm = 51.70 m Total Length and 51.70 m Inspected Length

Circular, 450 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
6	EX6	EX7	21/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Concrete	39.90 m	39.90 m

Total: 1 Inspection x Circular 450 mm = 39.90 m Total Length and 39.90 m Inspected Length

Circular, 525 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
12	EX2	EX2A	23/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	71.40 m	71.40 m

Total: 1 Inspection x Circular 525 mm = 71.40 m Total Length and 71.40 m Inspected Length

Section Profile

Project Name
 TRINITY SCHOOL, BARNSELY

Project Number

Project Date
 21/09/2021

Circular, 600 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
13	EX2A	EX7B	23/09/2021	TRINITY SCHOOL, KERESFORTH CLOSE	Vitrified clay	60.30 m	60.30 m

Total: 1 Inspection x Circular 600 mm = 60.30 m Total Length and 60.30 m Inspected Length

Total: 9 Inspections = 367.30 m Total Length and 367.30 m Inspected Length

Section Summary

Project Name TRINITY SCHOOL, BARNSELEY	Project Number	Project Date 21/09/2021
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Number of sections	14
Total length of sections	492.20 m
Total length of inspected sections	490.20 m
Total length of abandoned inspections	2.00 m
Number of abandoned inspections	5
Number of section inspection photos	13
Number of section inspection videos	14
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	138X	Upstream Node:	138
Inspection Direction:	Downstream	Downstream Node:	138A
Inspected Length:	51.70 m	Dia/Height:	300 mm
Total Length:	51.70 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: 138
2	0.00	WL	Water level, 5% of the vertical dimension
3	51.10	FCJ	Fracture, circumferential at joint from 3 o'clock to 9 o'clock
4	51.70	MHF	Finish node, manhole, reference: 138A

PLR:	137X	Upstream Node:	137
Inspection Direction:	Downstream	Downstream Node:	137A
Inspected Length:	44.00 m	Dia/Height:	225 mm
Total Length:	46.00 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: 137
2	0.00	WL	Water level, 5% of the vertical dimension
3	44.00	SA	Survey abandoned

PLR:	EX1X	Upstream Node:	EX1
Inspection Direction:	Downstream	Downstream Node:	EX2
Inspected Length:	31.20 m	Dia/Height:	225 mm
Total Length:	31.20 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 5% of the vertical dimension
2	0.00	MH	Start node, manhole, reference: EX1
3	31.20	MHF	Finish node, manhole, reference: EX2

Section Summary

Project Name TRINITY SCHOOL, BARNSELEY	Project Number	Project Date 21/09/2021
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PLR:	EX3X	Upstream Node:	EX3
Inspection Direction:	Downstream	Downstream Node:	EX4
Inspected Length:	26.60 m	Dia/Height:	100 mm
Total Length:	26.60 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX3
2	0.00	WL	Water level, 5% of the vertical dimension
3	25.90	WL	Water level, 30% of the vertical dimension
4	25.90	JDL	Joint displaced, large
5	26.00	MCCI	Pipe material changes to cast iron at this point
6	26.60	MHF	Finish node, manhole, reference: EX4

PLR:	EX5X	Upstream Node:	EX5
Inspection Direction:	Downstream	Downstream Node:	ZZZ
Inspected Length:	0.00 m	Dia/Height:	225 mm
Total Length:		Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX5
2	0.00	WL	Water level, 10% of the vertical dimension
3	0.00	RM	Roots, mass, 70% cross-sectional area loss
4	0.00	SA	Survey abandoned

PLR:	EX6X	Upstream Node:	EX6
Inspection Direction:	Downstream	Downstream Node:	EX7
Inspected Length:	39.90 m	Dia/Height:	450 mm
Total Length:	39.90 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX6
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.00	RM	Roots, mass, 15% cross-sectional area loss
4	39.90	MHF	Finish node, manhole, reference: EX7

PLR:	EX7X	Upstream Node:	EX7
Inspection Direction:	Downstream	Downstream Node:	ZZZ
Inspected Length:	55.00 m	Dia/Height:	450 mm
Total Length:	55.00 m	Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX7
2	0.00	WL	Water level, 5% of the vertical dimension
3	55.00	SA	Survey abandoned

PLR:	EX8X	Upstream Node:	EX8
Inspection Direction:	Downstream	Downstream Node:	EX2
Inspected Length:	1.00 m	Dia/Height:	150 mm
Total Length:	1.00 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX8

Section Summary

Project Name TRINITY SCHOOL, BARNSELEY	Project Number	Project Date 21/09/2021
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No.	m+	Code	Observation
2	0.00	WL	Water level, 5% of the vertical dimension
3	1.00	MHF	Finish node, manhole, reference: EX2

PLR:	EX4X	Upstream Node:	EX4
Inspection Direction:	Downstream	Downstream Node:	NODE
Inspected Length:	7.40 m	Dia/Height:	100 mm
Total Length:	7.40 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX4
2	0.00	WL	Water level, 5% of the vertical dimension
3	3.90	LD	Line deviates down
4	5.40	JDM	Joint displaced, medium
5	7.40	MHF	Finish node, manhole, reference: NODE

PLR:	146X	Upstream Node:	146
Inspection Direction:	Downstream	Downstream Node:	146A
Inspected Length:	77.80 m	Dia/Height:	225 mm
Total Length:	77.80 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: 146
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.00	RFJ	Roots, fine at joint, start
4	7.00	RMJ	Roots, mass at joint, 20% cross-sectional area loss
5	9.00	RM	Roots, mass, 25% cross-sectional area loss
6	18.60	FL	Fracture, longitudinal at 12 o'clock
7	20.30	FL	Fracture, longitudinal at 6 o'clock
8	77.80	RFJ	Roots, fine at joint, finish
9	77.80	MHF	Finish node, manhole, reference: 146A

PLR:	146AX	Upstream Node:	146A
Inspection Direction:	Downstream	Downstream Node:	146B
Inspected Length:	21.70 m	Dia/Height:	225 mm
Total Length:	21.70 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: 146A
2	0.00	WL	Water level, 5% of the vertical dimension
3	11.80	FCJ	Fracture, circumferential at joint from 3 o'clock to 9 o'clock
4	18.80	WL	Water level, 20% of the vertical dimension
5	21.70	SA	Survey abandoned

PLR:	EX2X	Upstream Node:	EX2
Inspection Direction:	Upstream	Downstream Node:	EX2A
Inspected Length:	71.40 m	Dia/Height:	525 mm
Total Length:	71.40 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX2A

Section Summary

Project Name TRINITY SCHOOL, BARNSELEY	Project Number	Project Date 21/09/2021
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No.	m+	Code	Observation
2	0.00	WL	Water level, 5% of the vertical dimension
3	71.40	MHF	Finish node, manhole, reference: EX2

PLR:	EX2AX	Upstream Node:	EX2A
Inspection Direction:	Downstream	Downstream Node:	EX7B
Inspected Length:	60.30 m	Dia/Height:	600 mm
Total Length:	60.30 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: EX2A
2	0.00	WL	Water level, 5% of the vertical dimension
3	60.30	MHF	Finish node, manhole, reference: EX7B

PLR:	137BX	Upstream Node:	137B
Inspection Direction:	Downstream	Downstream Node:	138A
Inspected Length:	2.20 m	Dia/Height:	600 mm
Total Length:	2.20 m	Material:	Vitrified clay

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: 137B
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.00	RM	Roots, mass, 10% cross-sectional area loss
4	2.20	RM	Roots, mass, 20% cross-sectional area loss
5	2.20	SA	Survey abandoned

Section Inspection - 21/09/2021 - 138X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	21/09/21	10:22	Not Specified	No Rain Or Snow	Yes	138X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	138
Road:	Trinity School, Keresforth Close	Inspected Length:	51.70 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	51.70 m	Downstream Node:	138A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	300 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:446	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m 138 0.00 0.00 51.10 51.70 138A Depth: m							
			MH	Start node, manhole, reference: 138	00:00:00		
			WL	Water level, 5% of the vertical dimension	00:00:00		
			FCJ	Fracture, circumferential at joint from 3 o'clock to 9 o'clock	00:05:09	137X_a8e d3296-1ca c-4ba0-9d	3 / 2
			MHF	Finish node, manhole, reference: 138A	00:05:21	137X_236 ebf76-133 4-47b7-bfa	

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	40.0	0.8	40.0	3.0	1	1.0	0.0	1.0	2.0

Section Pictures - 21/09/2021 - 138X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	138X		



137X_a8ed3296-1cac-4ba0-9d41-4840c77ce783_20210921_105322_318.jpg, 00:05:09, 51.10 m
 Fracture, circumferential at joint from 3 o'clock to 9 o'clock



137X_236ebf76-1334-47b7-bfa3-9d32fdc6c504_20210921_105351_620.jpg, 00:05:21, 51.70 m
 Finish node, manhole, reference: 138A

Section Inspection - 21/09/2021 - 137X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	1	21/09/21	11:11	Not Specified	No Rain Or Snow	Yes	137X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	137
Road:	Trinity School, Keresforth Close	Inspected Length:	44.00 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	46.00 m	Downstream Node:	137A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:397 Position [m] Code Observation MPEG Photo Grade

Depth: m

137



0.00

MH

Start node, manhole, reference: 137

00:00:00

0.00

WL

Water level, 5% of the vertical dimension

00:00:00

44.00

SA

Survey abandoned: BACKDROP MH IN VIEW

00:03:39

46.00

End of pipe

137A

Depth: m

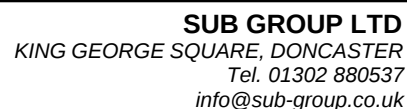
Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Item No. 3	Insp. No. 1	Date 21/09/21	Time 12:45	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR EX1X
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Comments:	
Recommendations:	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

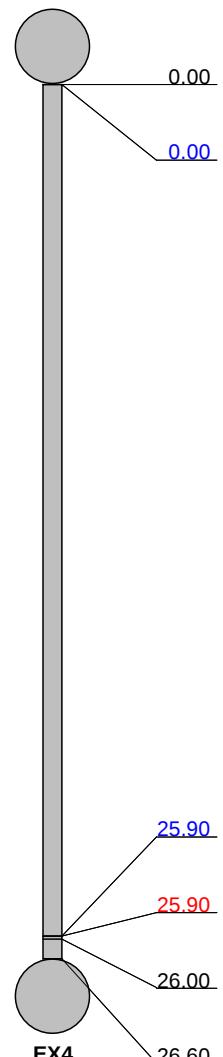
Section Inspection - 21/09/2021 - EX3X

Item No. 4	Insp. No. 1	Date 21/09/21	Time 12:56	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR EX3X
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	EX3
Road:	Trinity School, Keresforth Close	Inspected Length:	26.60 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	26.60 m	Downstream Node:	EX4
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	100 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:230	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m EX3 						
0.00	MH	Start node, manhole, reference: EX3	00:00:00			
0.00	WL	Water level, 5% of the vertical dimension	00:00:00			
25.90	WL	Water level, 30% of the vertical dimension	00:01:42			
25.90	JDL	Joint displaced, large	00:01:43		EX3X_e2e 1af9d-030 6-4e1a-a8	1 / 4
26.00	MCCI	Pipe material changes to cast iron at this point	00:01:58			
26.60	MHF	Finish node, manhole, reference: EX4	00:02:03			
Depth: m						

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	0.1	2.0	1.0	1	5.0	0.2	5.0	4.0

Section Pictures - 21/09/2021 - EX3X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
4	Downstream	EX3X		



EX3X_e2e1af9d-0306-4e1a-a8ba-baeb2eef8172_20210921_1
 30005_350.jpg, 00:01:43, 25.90 m
 Joint displaced, large

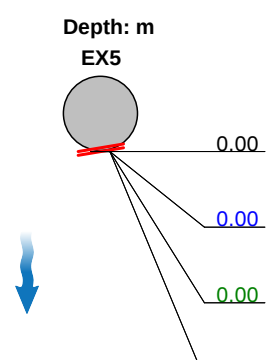
Section Inspection - 21/09/2021 - EX5X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
5	1	21/09/21	13:36	Not Specified	No Rain Or Snow	Yes	EX5X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	EX5
Road:	Trinity School, Keresforth Close	Inspected Length:	0.00 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	0.00 m	Downstream Node:	ZZZ
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m EX5 							
		0.00	MH	Start node, manhole, reference: EX5	00:00:00		
		0.00	WL	Water level, 10% of the vertical dimension	00:00:00		
		0.00	RM	Roots, mass, 70% cross-sectional area loss	00:00:09	EX5X_e50 434e0-c8c 7-4e02-a0	5
		0.00	SA	Survey abandoned: DUE TO ROOT MASS	00:00:57		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	15.0	0.0	15.0	5.0

Section Pictures - 21/09/2021 - EX5X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
5	Downstream	EX5X		



EX5X_e50434e0-c8c7-4e02-a09a-3fd6348ed68e_20210921_134037_627.jpg, 00:00:09, 0.00 m
 Roots, mass, 70% cross-sectional area loss

Section Inspection - 21/09/2021 - EX6X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
6	1	21/09/21	13:45	Not Specified	No Rain Or Snow	Yes	EX6X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	EX6
Road:	Trinity School, Keresforth Close	Inspected Length:	39.90 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	39.90 m	Downstream Node:	EX7
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	450 mm		
Flow Control:	No flow control	Material:	Concrete		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:344	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m EX6 0.00 0.00 0.00 39.90 EX7 Depth: m							
		0.00	MH	Start node, manhole, reference: EX6	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		0.00	RM	Roots, mass, 15% cross-sectional area loss	00:00:10	EX6X_e82 31c62-5b6 0-473f-836	3
		39.90	MHF	Finish node, manhole, reference: EX7	00:02:12		

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	4.0	0.0	4.0	3.0

Section Pictures - 21/09/2021 - EX6X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
6	Downstream	EX6X		



EX6X_e8231c62-5b60-473f-8366-1a05f44a57ea_20210921_1
 35013_769.jpg, 00:00:10, 0.00 m
 Roots, mass, 15% cross-sectional area loss

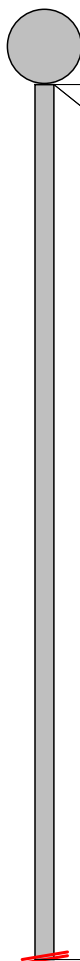
Section Inspection - 21/09/2021 - EX7X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
7	1	21/09/21	13:56	Not Specified	No Rain Or Snow	Yes	EX7X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	EX7
Road:	Trinity School, Keresforth Close	Inspected Length:	55.00 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	55.00 m	Downstream Node:	ZZZ
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	450 mm		
Flow Control:	No flow control	Material:	Concrete		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:475	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m EX7 							
		0.00	MH	Start node, manhole, reference: EX7	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		55.00	SA	Survey abandoned: LOSS OF TRACTION	00:11:04		

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 21/09/2021 - EX8X

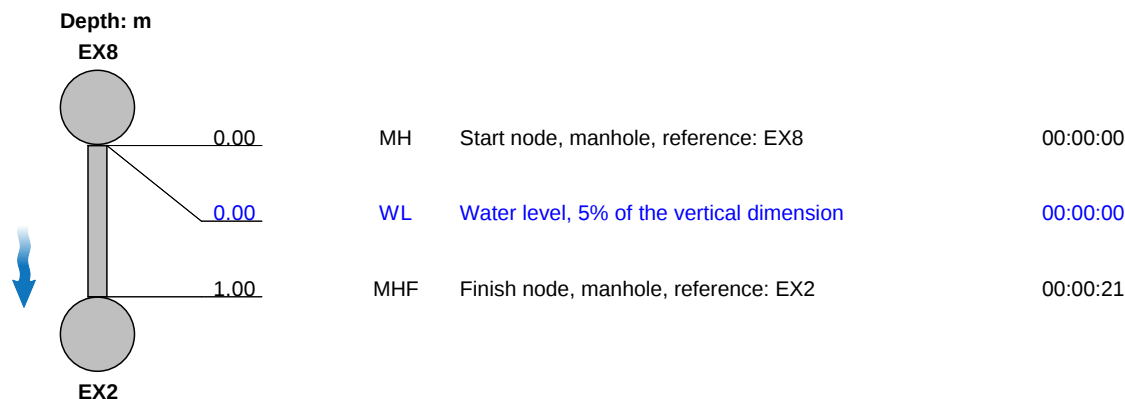
Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
8	1	21/09/21	14:38	Not Specified	No Rain Or Snow	Yes	EX8X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	EX8
Road:	Trinity School, Keresforth Close	Inspected Length:	1.00 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	1.00 m	Downstream Node:	EX2
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	150 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

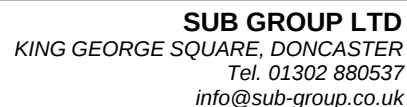
Recommendations:

Scale: 1:50 Position [m] Code Observation MPEG Photo Grade



Depth: m

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Item No. 9	Insp. No. 1	Date 21/09/21	Time 14:50	Client`s Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR EX4X
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Comments:	
Recommendations:	

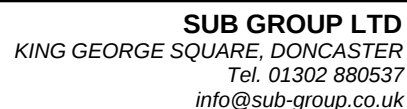
Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	0.2	1.0	1.0	1	2.0	0.4	2.0	3.0

Section Pictures - 21/09/2021 - EX4X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
9	Downstream	EX4X		



EX4X_0ecc9e45-33a7-497c-b540-4debd08834fc_20210921_145125_070.jpg, 00:00:46, 5.40 m
 Joint displaced, medium



Item No. 10	Insp. No. 1	Date 23/09/21	Time 9:43	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR 146X
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	146
Road:	Trinity School, Keresforth Close	Inspected Length:	77.80 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	77.80 m	Downstream Node:	146A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:	
Recommendations:	

Scale:	1:671	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m 146 0.00 0.00 0.00 7.00 9.00 18.60 20.30 77.80 77.80 146A Depth: m	MH	Start node, manhole, reference: 146	00:00:00				
	WL	Water level, 5% of the vertical dimension	00:00:00				
	S01	RFJ	Roots, fine at joint, start	00:00:58			
	RMJ	Roots, mass at joint, 20% cross-sectional area loss	00:00:58	146X_250f062f-a501-4029-bb82	5		
	RM	Roots, mass, 25% cross-sectional area loss	00:01:21	146X_b49e6835-9183-42c0-89	5		
	FL	Fracture, longitudinal at 12 o'clock	00:02:19	146X_e4c12ad6-a9f6-4cfe-825	3 / 2		
	FL	Fracture, longitudinal at 6 o'clock	00:02:43	146X_81b8881c-ab65-40b9-a9f	3 / 2		
	F01	RFJ	Roots, fine at joint, finish	00:07:43		2	
	MHF	Finish node, manhole, reference: 146A	00:07:44				

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	40.0	11.4	80.0	3.0	5	11.0	14.3	100.0	5.0

Section Pictures - 23/09/2021 - 146X

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
10	Downstream	146X		



146X_250f062f-a501-4029-bb82-d4f1a554d51f_20210923_09
 4515_705.jpg, 00:00:58, 7.00 m
 Roots, mass at joint, 20% cross-sectional area loss



146X_b49e6835-9183-42c0-89ac-85fd8a292636_20210923_0
 94543_089.jpg, 00:01:21, 9.00 m
 Roots, mass, 25% cross-sectional area loss



146X_e4c12ad6-a9f6-4cfe-8253-43950971168f_20210923_09
 4645_410.jpg, 00:02:19, 18.60 m
 Fracture, longitudinal at 12 o'clock



146X_81b8881c-ab65-40b9-a9f1-5c5a30919911_20210923_0
 94713_906.jpg, 00:02:43, 20.30 m
 Fracture, longitudinal at 6 o'clock

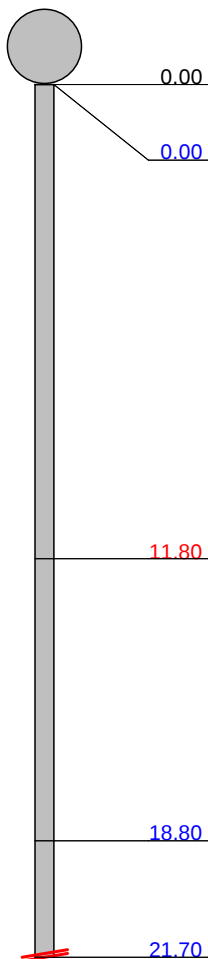
Section Inspection - 23/09/2021 - 146AX

Item No. 11	Insp. No. 1	Date 23/09/21	Time 10:08	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR 146AX
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	146A
Road:	Trinity School, Keresforth Close	Inspected Length:	21.70 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	21.70 m	Downstream Node:	146B
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Foul	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	225 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:188	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m 146A						
						
0.00	MH	Start node, manhole, reference: 146A	00:00:00			
0.00	WL	Water level, 5% of the vertical dimension	00:00:00			
11.80	FCJ	Fracture, circumferential at joint from 3 o'clock to 9 o'clock	00:01:26	146AX_07 4500b5-e2 6e-4767-8	3 / 2	
18.80	WL	Water level, 20% of the vertical dimension	00:02:21			
21.70	SA	Survey abandoned: OBSTRUCTION	00:03:49			

Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	40.0	3.4	40.0	3.0	1	1.0	0.1	1.0	2.0

Section Pictures - 23/09/2021 - 146AX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
11	Downstream	146AX		



146AX_074500b5-e26e-4767-8654-c5debf054eff_20210923_101335_301.jpg, 00:01:26, 11.80 m
 Fracture, circumferential at joint from 3 o'clock to 9 o'clock

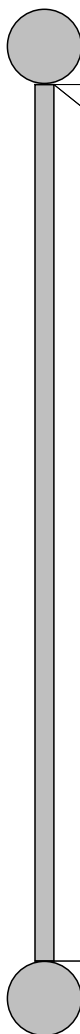
Section Inspection - 23/09/2021 - EX2X

Item No. 12	Insp. No. 1	Date 23/09/21	Time 10:35	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR EX2X
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Town or Village:	Barnsley	Inspection Direction:	Upstream	Upstream Node:	EX2
Road:	Trinity School, Keresforth Close	Inspected Length:	71.40 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	71.40 m	Downstream Node:	EX2A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	525 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale: 1:616	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m EX2A						
	0.00	MH	Start node, manhole, reference: EX2A	00:00:00		
	0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
	71.40	MHF	Finish node, manhole, reference: EX2	00:04:05		
EX2 Depth: m						

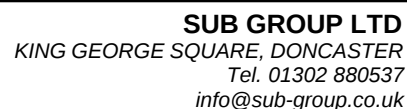
Construction Features

Miscellaneous Features

Structural Defects

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0



Item No. 13	Insp. No. 1	Date 23/09/21	Time 11:27	Client's Job Ref Not Specified	Weather No Rain Or Snow	Pre Cleaned Yes	PLR EX2AX
Operator JW		Vehicle Not Specified		Camera Not Specified	Preset Length Not Specified	Legal Status Private Drain	Alternative ID Not Specified

Comments:	
Recommendations:	

Construction Features					Miscellaneous Features				
Structural Defects					Service & Operational Observations				
STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

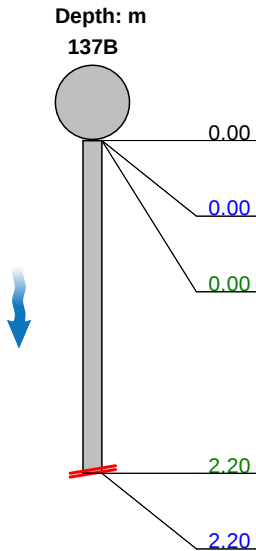
Section Inspection - 23/09/2021 - 137BX

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
14	1	23/09/21	11:36	Not Specified	No Rain Or Snow	Yes	137BX
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
JW		Not Specified		Not Specified	Not Specified	Private Drain	Not Specified

Town or Village:	Barnsley	Inspection Direction:	Downstream	Upstream Node:	137B
Road:	Trinity School, Keresforth Close	Inspected Length:	2.20 m	Upstream Pipe Depth:	
Location:	Property or buildings	Total Length:	2.20 m	Downstream Node:	138A
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	600 mm		
Flow Control:	No flow control	Material:	Vitrified clay		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:50	Position [m]	Code	Observation	MPEG	Photo	Grade
							
		0.00	MH	Start node, manhole, reference: 137B	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		0.00	RM	Roots, mass, 10% cross-sectional area loss	00:00:00	137BX_c6 131b60-c1 90-4d2c-a	3
		2.20	RM	Roots, mass, 20% cross-sectional area loss	00:01:35	137BX_c5f 92405-008 1-4295-9e	5
		2.20	SA	Survey abandoned: DUE TO ROOT MASS	00:01:38		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	2	10.0	0.0	14.0	5.0

Section Pictures - 23/09/2021 - 137BX

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
14	Downstream	137BX		



137BX_c6131b60-c190-4d2c-a1f4-2646fa072b78_20210923_113649_385.jpg, 00:00:00, 0.00 m
 Roots, mass, 10% cross-sectional area loss

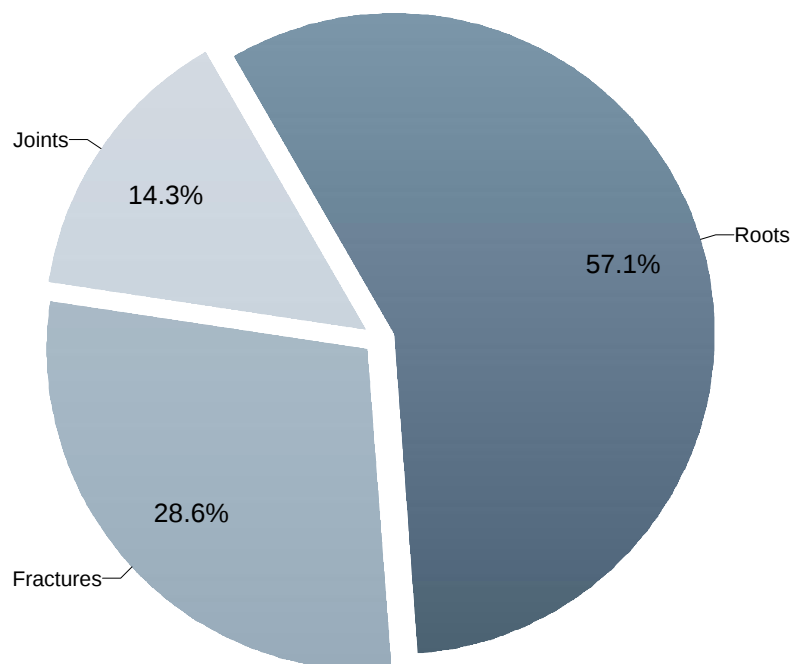


137BX_c5f92405-0081-4295-9ede-4fb2628d24ff_20210923_113910_768.jpg, 00:01:35, 2.20 m
 Roots, mass, 20% cross-sectional area loss

Damage overview

Project Name TRINITY SCHOOL, BARNSELEY	Project Number	Project Date 21/09/2021
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Group	Count
Roots	8
Fractures	4
Joints	2



Inspection Summary

Project Name
 TRINITY SCHOOL, BARNSELY

Project Number

Project Date
 21/09/2021

Node from:	137B	138	146	146A	EX3	EX4	EX5	EX6	Total
Node to:	138A	138A	146A	146B	EX4	NODE	ZZZ	EX7	
Section height:	600.00	300.00	225.00	225.00	100.00	100.00	225.00	450.00	
Section length:	2.20	51.70	77.80	21.70	26.60	7.40	0.00	39.90	492.20
Inspected length:	2.20	51.70	77.80	21.70	26.60	7.40	0.00	39.90	490.20
Abandoned:	X			X			X		
Fractures:	0	1	2	1	0	0	0	0	4
Joints:	0	0	0	0	1	1	0	0	2
Roots:	2	0	4	0	0	0	1	1	8
Total:	2	1	6	1	1	1	1	1	14