

Project ref: TV-----

13th July 2023

CLIENT:-

SITE: Any Street

Any Where

South East

EE23 WT5

CCTV Survey Report

Sewer Inspection, Cleaning and Repair

www.insewer.co.uk

Tel : 01634 861 768



*Embedded video links within
report for online viewing*



Project Information

| Project Name | Project Number | Project Date |
|-------------------------|----------------|--------------|
| Buildover sample survey | | 13/07/2023 |

Client

Street: Any Street
Town or City: Somewhere

Site

Street: Any Street
Town or City: Anywhere

Contractor

Company: Insewer Surveys
Contact: Liam Sellar
Street: 16a Revenge Road
Town or City: Chatham
County: Kent
Post Code: ME5 8UD
Phone: 01634 861 768
Fax: 01634 201376
Mobile: 07802 660 752



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|-------------------------|----------------|--------------|
| Buildover sample survey | | 13/07/2023 |

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Scoring Summary

Project Name
Buildover sample survey

Project Number

Project Date
13/07/2023

Structural Defects

| Section | PLR | Grade | Description |
|--|-----|-------|-------------|
| All inspected pipes are in an acceptable structural condition (< grade 3). | | | |

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 |
|---------|--------|-------|---|
| 1 | IC2X | 4 | Settled deposits, other, 25% cross-sectional area loss, finish |
| 2 | RUN AX | 4 | Multiple defects |
| 4 | IC4X | 3 | Settled deposits, hard or compacted at joint, 10% cross-sectional area loss |

Abandoned Surveys

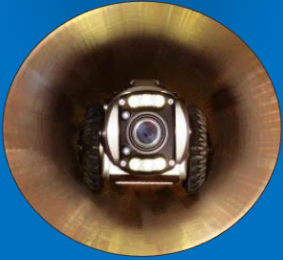
| Section | PLR | Description |
|---------|--------|------------------|
| 2 | RUN AX | Survey abandoned |

Information

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



Site Photos





IC1



LOCATION OF IC1



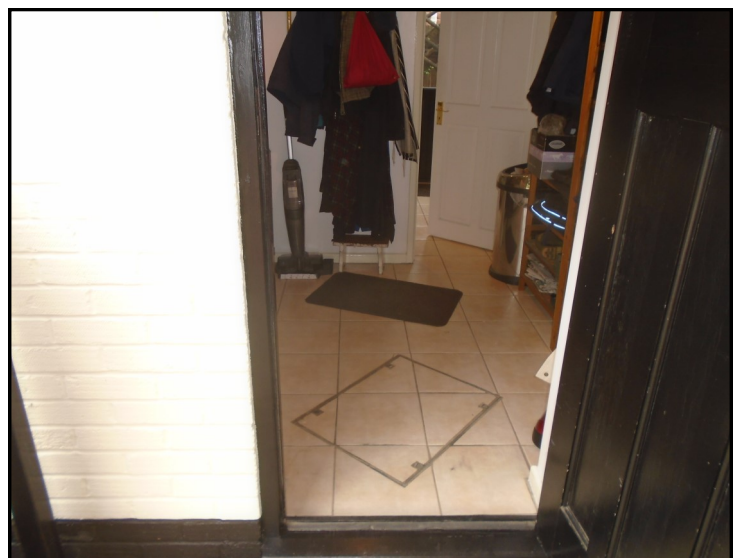
IC2



LOCATION OF IC2



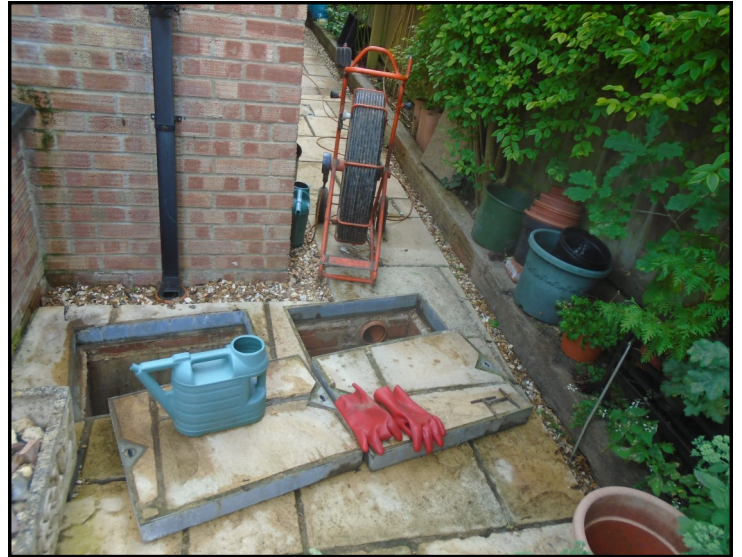
IC3 U.T.L



LOCATION OF IC3



IC5



LOCATION OF IC5



REAR OVERVIEW



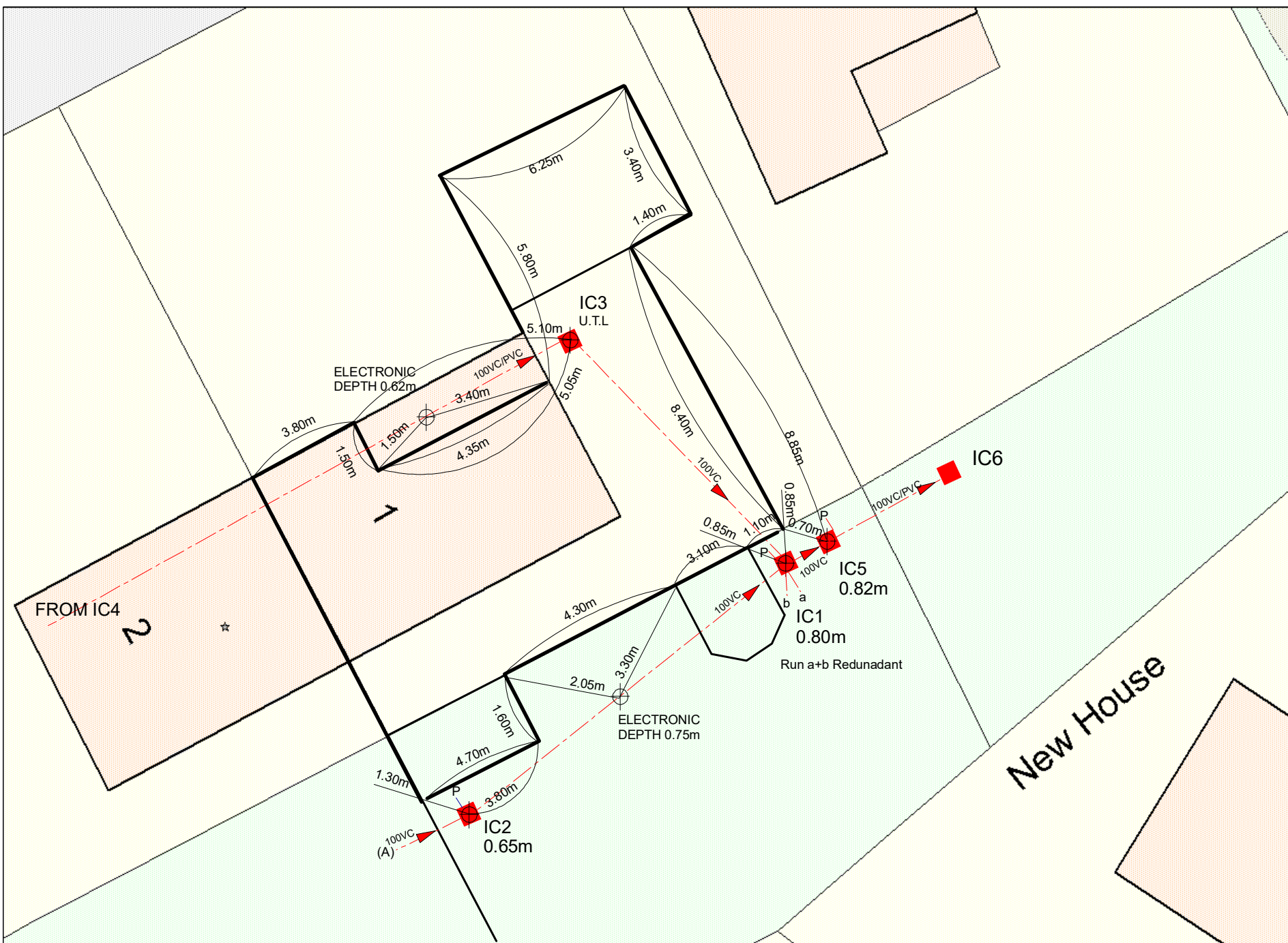
Site Plan



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Tel : 01634 861 768





General Notes

- foul water manhole with flow direction
- soil pipe
- foul gully
- surface water mh with flow direction
- rwp
- rainwater gully
- svp soil & vent pipe
- sp soil pipe
- wc toilet
- fg foul gully
- rg rainwater gully
- rwp rainwater pipe
- re rodding eye
- ed electronic depth
- Points traced electronically

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Chatham
Kent
ME5 8UD
 Tel: 01634 861 768
 Tel: 01634 201 376
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Project Name and Address

Drainage Survey

| | |
|---------|--------------|
| Project | TV----- |
| Date | 2023 |
| Scale | Not to scale |



Disclaimer

Detail shown on this plan is for reference only.

The positions of the pipes have been traced electronically and their route and location are believed to be correct.

InSewer Surveys accept no responsibility in the event of inaccuracy.

Before mechanical plant is used the actual position and route of the drainage system should be verified on site.

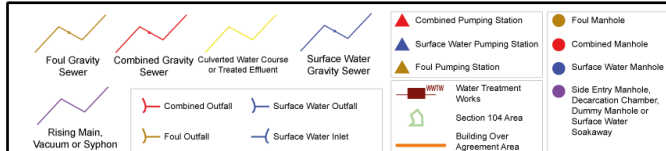


(c) Crown copyright and database rights 2023 Ordnance Survey 100031673 Date: 08/06/23 Scale: 1:509 Map Centre: 429819,102090 Data updated: 05/05/23 Wastewater Plan A4

The positions of pipes shown on this plan are believed to be correct, but Southern Water Services Ltd accept no responsibility in the event of inaccuracy. The actual positions should be determined on site. This plan is produced by Southern Water Services Ltd (c) Crown copyright and database rights 2023 Ordnance Survey 100031673. This map is to be used for the purposes of viewing the location of Southern Water plant only. Any other uses of the map data or further copies is not permitted.

WARNING: BAC pipes are constructed of Bonded Asbestos Cement.

WARNING: Unknown (UNK) materials may include Bonded Asbestos Cement.

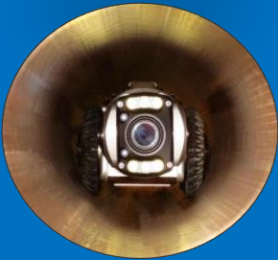


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Report



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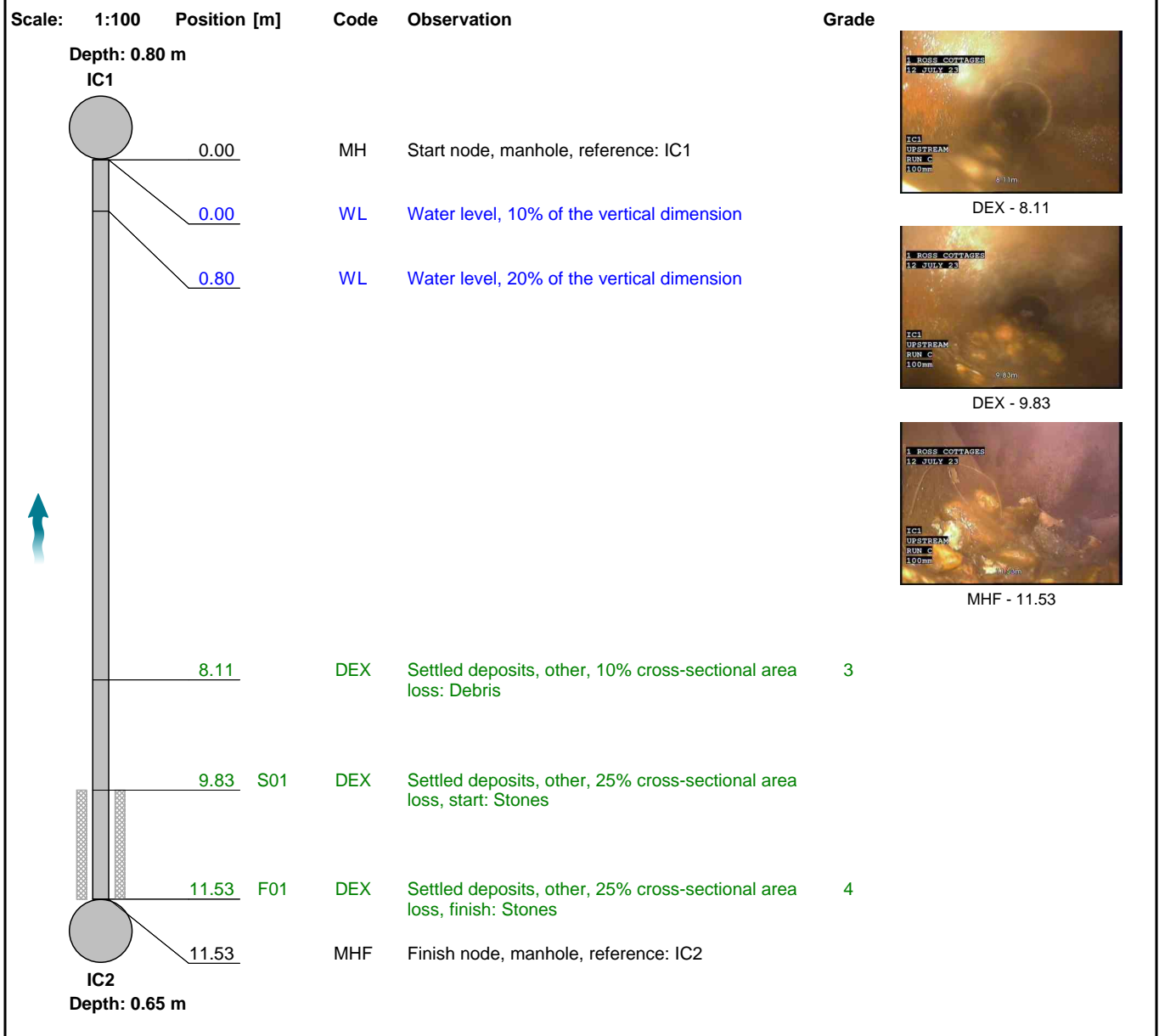
Section Inspection - 13/07/2023 - IC2X



| | | | | | | | |
|------------------------|----------------|------------------|---------------|-----------------------------------|--------------------------------|------------------------------|---------------------|
| Item No. 1 | Insp. No. 1 | Date 13/07/23 | Time 11:34 | Client's Job Ref Not Specified | Weather No Rain Or Snow | Pre Cleaned Not Specified | PLR IC2X |
| Operator InSewer MM | | Vehicle . | | Camera 0 | Preset Length Not Specified | Legal Status - | Alternative ID - |

| | | |
|---|---------------------------------------|---------------------------------------|
| Town or Village: Anywhere | Inspection Direction: Upstream | Upstream Node: IC2 |
| Road: Any Street | Inspected Length: 11.53 m | Upstream Pipe Depth: 0.650 m |
| Location: | Total Length: 11.53 m | Downstream Node: IC1 |
| Surface Type: | Joint Length: | Downstream Pipe Depth: 0.800 m |
| Use: Combined | Pipe Shape: Circular | |
| Type of Pipe: | Dia/Height: 100 mm | |
| Flow Control: - | Material: Vitrified clay | |
| Year Constructed: Not Specified | Lining Type: No Lining | |
| Inspection Purpose: Routine inspection | Lining Material: No Lining | |

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 | 2 | 5.0 | 1.0 | 12.0 | 4.0 |



| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 1 | Upstream | IC2X | | |



1, 00:00:33, 8.11 m
Settled deposits, other, 10% cross-sectional area loss, Debris



2, 00:00:40, 9.83 m
Settled deposits, other, 25% cross-sectional area loss, start, Stones



3, 00:00:57, 11.53 m
Finish node, manhole, reference: IC2



Section Inspection - 13/07/2023 - RUN AX



| | | | | | | | |
|------------------------|----------------|------------------|---------------|-----------------------------------|--------------------------------|------------------------------|---------------------|
| Item No. 2 | Insp. No. 1 | Date 13/07/23 | Time 11:36 | Client's Job Ref Not Specified | Weather No Rain Or Snow | Pre Cleaned Not Specified | PLR RUN AX |
| Operator InSewer MM | | Vehicle . | | Camera 0 | Preset Length Not Specified | Legal Status - | Alternative ID - |

| | | |
|--|--------------------------------|--------------------------------|
| Town or Village: Anywhere | Inspection Direction: Upstream | Upstream Node: RUN A |
| Road: Any Street | Inspected Length: 1.63 m | Upstream Pipe Depth: |
| Location: | Total Length: 1.63 m | Downstream Node: IC2 |
| Surface Type: | Joint Length: | Downstream Pipe Depth: 0.650 m |
| Use: Foul | Pipe Shape: Circular | |
| Type of Pipe: | Dia/Height: 100 mm | |
| 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 | Grade | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------|--|-------------|-------|------|----|-------------------------------------|--|------|-----|----------------------------------|--|------|----|---|--|------|-----|--|---|------|-----|--|---|------|-----|----------------------------------|--|------|----|--------------------------------------|--|
| <div style="display: flex; align-items: flex-start;"> <div style="margin-right: 20px;"> <p>Depth: 0.65 m IC2</p> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">0.00</td> <td style="width: 5%;">MH</td> <td style="width: 45%;">Start node, manhole, reference: IC2</td> <td style="width: 35%;"></td> </tr> <tr> <td>0.00</td> <td>REM</td> <td>General remark: Leaving boundary</td> <td></td> </tr> <tr> <td>0.00</td> <td>WL</td> <td>Water level, 5% of the vertical dimension</td> <td></td> </tr> <tr> <td>0.10</td> <td>S01</td> <td>DES Settled deposits, fine, 20% cross-sectional area loss, start: Stones</td> <td>4</td> </tr> <tr> <td>0.45</td> <td>S02</td> <td>DES Settled deposits, fine, 20% cross-sectional area loss, start</td> <td>4</td> </tr> <tr> <td>0.50</td> <td>REM</td> <td>General remark: Leaving boundary</td> <td></td> </tr> <tr> <td>1.63</td> <td>SA</td> <td>Survey abandoned: Unable to continue</td> <td></td> </tr> </table> </div> | | | | | 0.00 | MH | Start node, manhole, reference: IC2 | | 0.00 | REM | General remark: Leaving boundary | | 0.00 | WL | Water level, 5% of the vertical dimension | | 0.10 | S01 | DES Settled deposits, fine, 20% cross-sectional area loss, start: Stones | 4 | 0.45 | S02 | DES Settled deposits, fine, 20% cross-sectional area loss, start | 4 | 0.50 | REM | General remark: Leaving boundary | | 1.63 | SA | Survey abandoned: Unable to continue | |
| 0.00 | MH | Start node, manhole, reference: IC2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | REM | General remark: Leaving boundary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.00 | WL | Water level, 5% of the vertical dimension | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.10 | S01 | DES Settled deposits, fine, 20% cross-sectional area loss, start: Stones | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.45 | S02 | DES Settled deposits, fine, 20% cross-sectional area loss, start | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.50 | REM | General remark: Leaving boundary | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.63 | SA | Survey abandoned: Unable to continue | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 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 | 2 | 0.0 | 6.1 | 10.0 | 5.0 |



| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|--------|------------------|----------------------|
| 2 | Upstream | RUN AX | | |



1, 00:00:01, 0.10 m
Settled deposits, fine, 20% cross-sectional area loss, start,
Stones



2, 00:00:29, 0.45 m
Settled deposits, fine, 20% cross-sectional area loss, start



3, 00:00:52, 1.63 m
Survey abandoned, Unable to continue



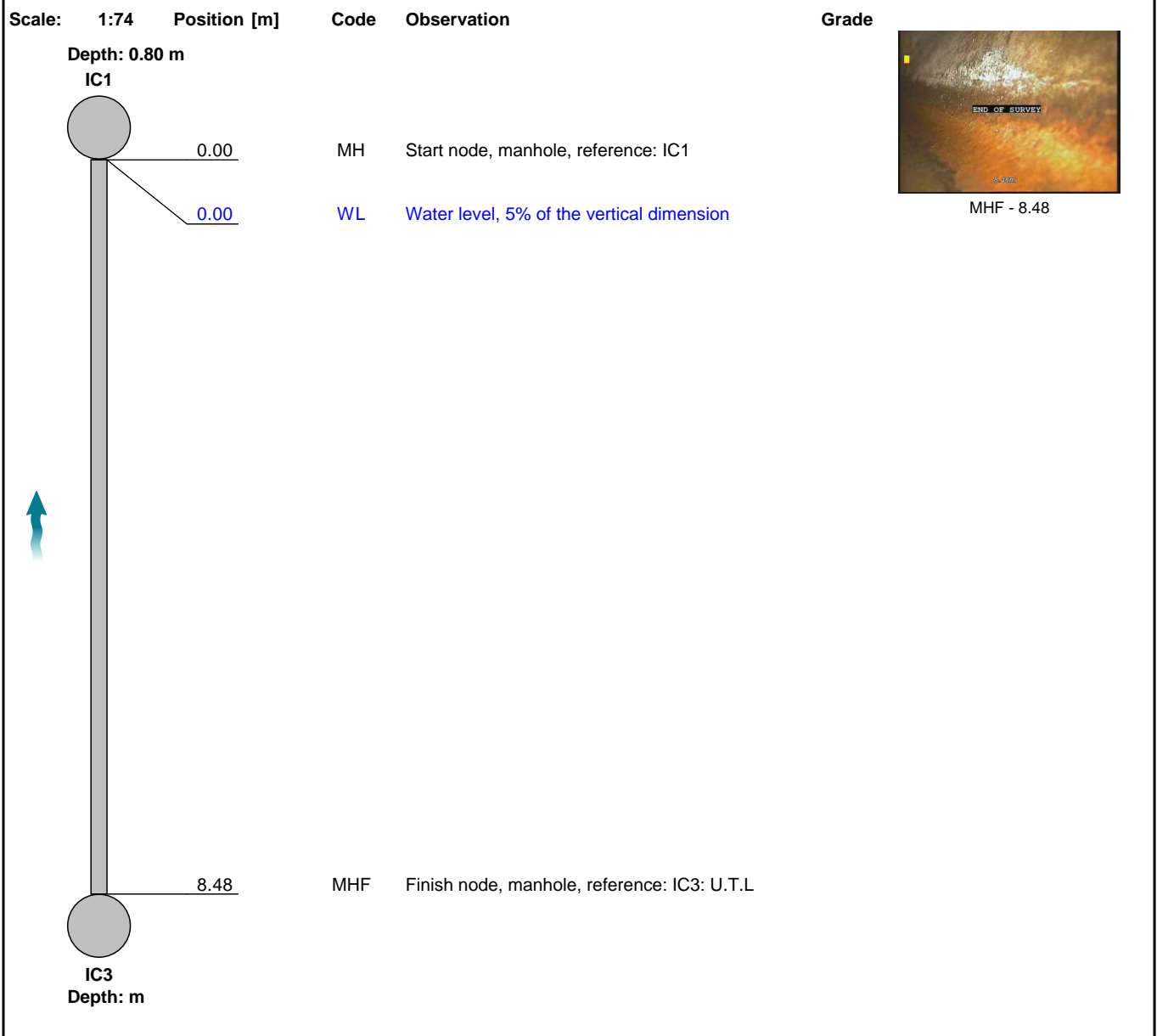
Section Inspection - 13/07/2023 - IC3X



| | | | | | | | |
|------------------------|----------------|------------------|---------------|-----------------------------------|--------------------------------|------------------------------|---------------------|
| Item No. 3 | Insp. No. 1 | Date 13/07/23 | Time 11:44 | Client's Job Ref Not Specified | Weather No Rain Or Snow | Pre Cleaned Not Specified | PLR IC3X |
| Operator InSewer MM | | Vehicle . | | Camera 0 | Preset Length Not Specified | Legal Status - | Alternative ID - |

| | | |
|---|---------------------------------------|---------------------------------------|
| Town or Village: Anywhere | Inspection Direction: Upstream | Upstream Node: IC3 |
| Road: Any Street | Inspected Length: 8.48 m | Upstream Pipe Depth: |
| Location: | Total Length: 8.48 m | Downstream Node: IC1 |
| Surface Type: | Joint Length: | Downstream Pipe Depth: 0.800 m |
| Use: Foul | Pipe Shape: Circular | |
| Type of Pipe: | Dia/Height: 100 mm | |
| Flow Control: - | Material: Vitrified clay | |
| Year Constructed: Not Specified | Lining Type: No Lining | |
| Inspection Purpose: Routine inspection | Lining Material: No Lining | |

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 |



| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 3 | Upstream | IC3X | | |



1, 00:00:30, 8.48 m
Finish node, manhole, reference: IC3, U.T.L



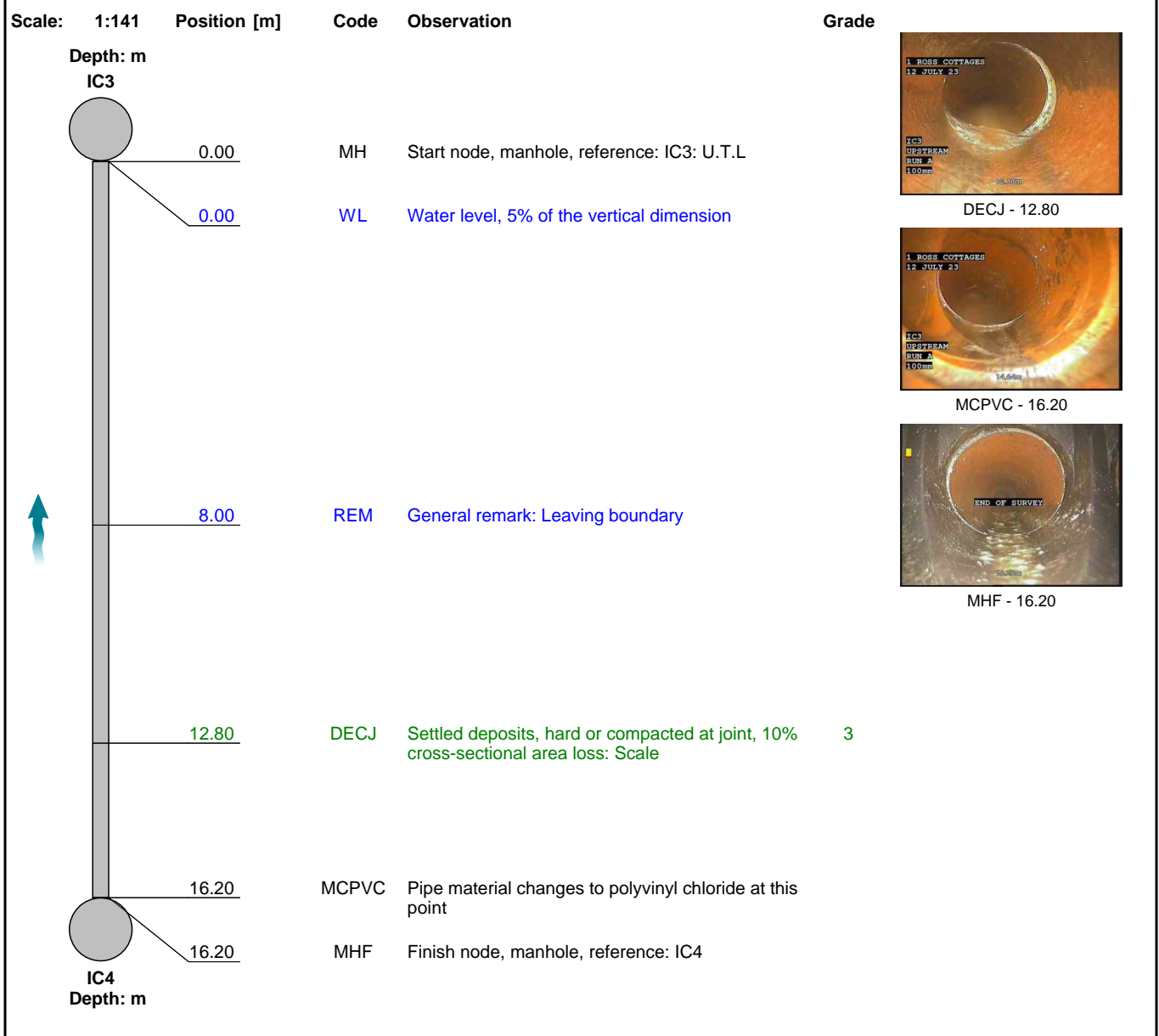
Section Inspection - 13/07/2023 - IC4X



| | | | | | | | |
|------------------------|----------------|------------------|---------------|-----------------------------------|--------------------------------|------------------------------|---------------------|
| Item No. 4 | Insp. No. 1 | Date 13/07/23 | Time 11:46 | Client's Job Ref Not Specified | Weather No Rain Or Snow | Pre Cleaned Not Specified | PLR IC4X |
| Operator InSewer MM | | Vehicle . | | Camera 0 | Preset Length Not Specified | Legal Status - | Alternative ID - |

| | | |
|--|--------------------------------|------------------------|
| Town or Village: Anywhere | Inspection Direction: Upstream | Upstream Node: IC4 |
| Road: Any Street | Inspected Length: 16.20 m | Upstream Pipe Depth: |
| Location: | Total Length: 16.20 m | Downstream Node: IC3 |
| Surface Type: | Joint Length: | Downstream Pipe Depth: |
| Use: Foul | Pipe Shape: Circular | |
| Type of Pipe: | Dia/Height: 100 mm | |
| Flow Control: - | Material: Vitrified clay | |
| Year Constructed: Not Specified | Lining Type: No Lining | |
| Inspection Purpose: Routine inspection | Lining Material: No Lining | |

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 | 1 | 2.0 | 0.1 | 2.0 | 3.0 |



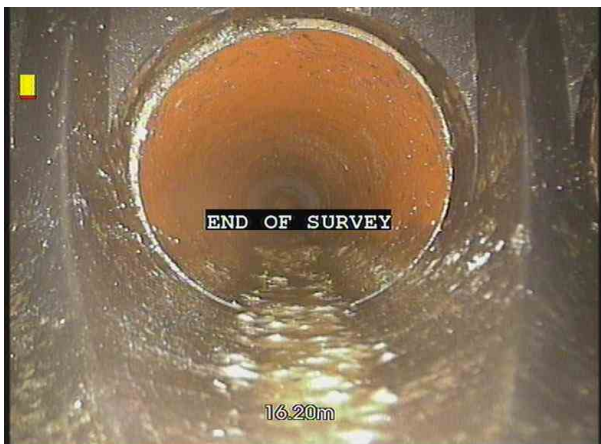
| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 4 | Upstream | IC4X | | |



1, 00:01:06, 12.80 m
Settled deposits, hard or compacted at joint, 10% cross-sectional area loss, Scale



2, 00:01:23, 16.20 m
Pipe material changes to polyvinyl chloride at this point



3, 00:01:47, 16.20 m
Finish node, manhole, reference: IC4



Section Inspection - 13/07/2023 - IC1X



| | | | | | | | |
|------------------------|----------------|------------------|---------------|-----------------------------------|--------------------------------|------------------------------|---------------------|
| Item No. 5 | Insp. No. 1 | Date 13/07/23 | Time 11:50 | Client's Job Ref Not Specified | Weather No Rain Or Snow | Pre Cleaned Not Specified | PLR IC1X |
| Operator InSewer MM | | Vehicle . | | Camera 0 | Preset Length Not Specified | Legal Status - | Alternative ID - |

| | | |
|---|---|---------------------------------------|
| Town or Village: Anywhere | Inspection Direction: Downstream | Upstream Node: IC1 |
| Road: Any Street | Inspected Length: 0.58 m | Upstream Pipe Depth: 0.800 m |
| Location: | Total Length: 0.58 m | Downstream Node: IC5 |
| Surface Type: | Joint Length: | Downstream Pipe Depth: 0.820 m |
| Use: Combined | Pipe Shape: Circular | |
| Type of Pipe: | Dia/Height: 100 mm | |
| 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 | Grade | | | | |
|---|------------------------------------|------|---|-------|-----------------------|------------------------|--------------------|------------------------------------|
| | | | | | | | | |
| | 0.00 | MH | Start node, manhole, reference: IC1 | | | | | |
| | 0.00 | WL | Water level, 5% of the vertical dimension | | | | | |
| | 0.58 | MHF | Finish node, manhole, reference: IC5 | | | | | |
| <p>MHF - 0.58</p> | | | | | | | | |
| <table border="0" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">Construction Features</td> <td style="width: 50%; text-align: center;">Miscellaneous Features</td> </tr> <tr> <td style="text-align: center; color: red;">Structural Defects</td> <td style="text-align: center; color: green;">Service & Operational Observations</td> </tr> </table> | | | | | Construction Features | Miscellaneous Features | Structural Defects | Service & Operational Observations |
| 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. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 5 | Downstream | IC1X | | |



1, 00:00:12, 0.58 m
Finish node, manhole, reference: IC5



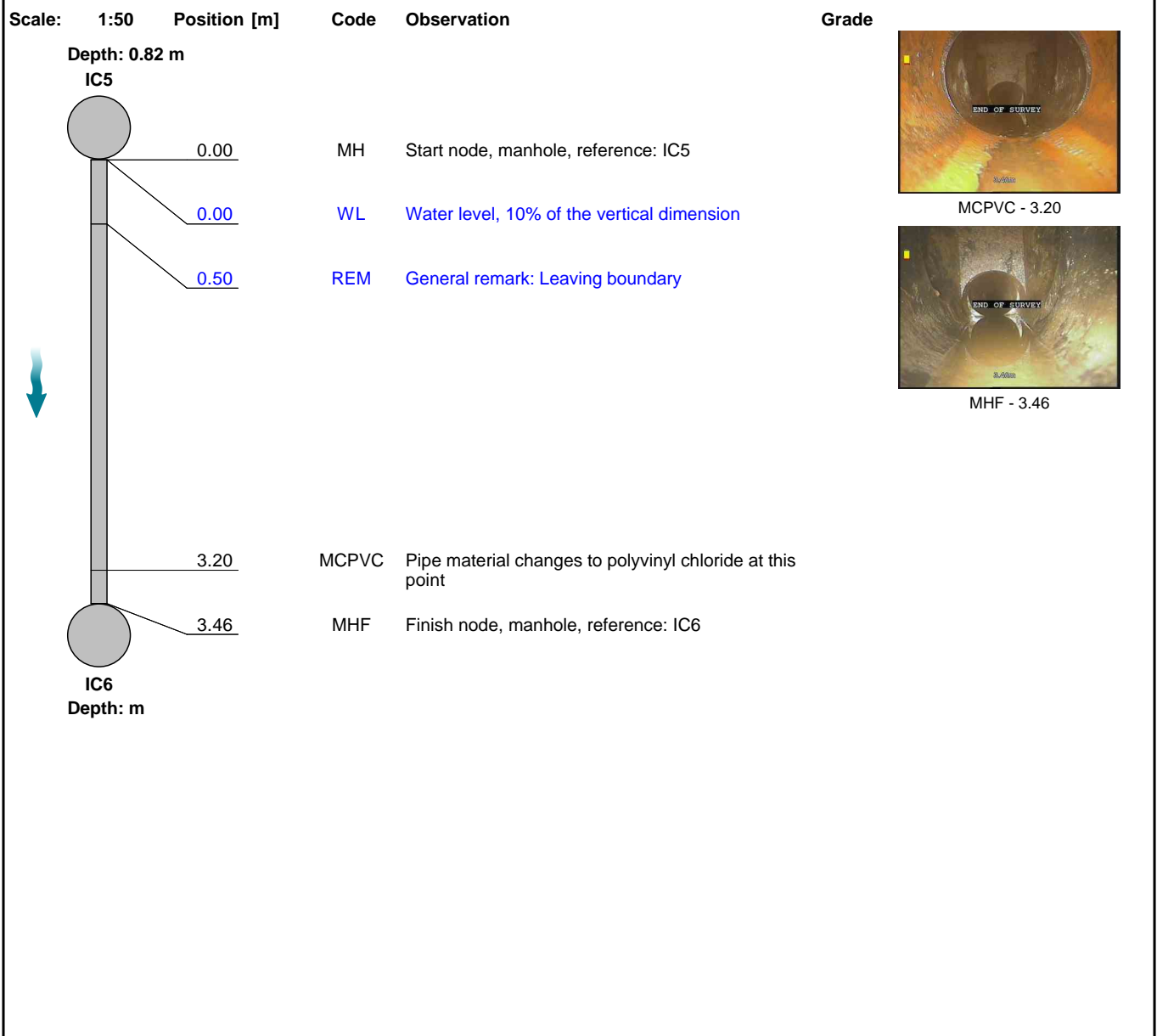
Section Inspection - 13/07/2023 - IC5X



| | | | | | | | |
|------------------------|----------------|------------------|---------------|-----------------------------------|--------------------------------|------------------------------|---------------------|
| Item No. 6 | Insp. No. 1 | Date 13/07/23 | Time 11:51 | Client's Job Ref Not Specified | Weather No Rain Or Snow | Pre Cleaned Not Specified | PLR IC5X |
| Operator InSewer MM | | Vehicle . | | Camera 0 | Preset Length Not Specified | Legal Status - | Alternative ID - |

| | | |
|--|----------------------------------|------------------------------|
| Town or Village: Anywhere | Inspection Direction: Downstream | Upstream Node: IC5 |
| Road: Any Street | Inspected Length: 3.46 m | Upstream Pipe Depth: 0.820 m |
| Location: | Total Length: 3.46 m | Downstream Node: IC6 |
| Surface Type: | Joint Length: | Downstream Pipe Depth: |
| Use: Combined | Pipe Shape: Circular | |
| Type of Pipe: | Dia/Height: 100 mm | |
| Flow Control: - | Material: Vitrified clay | |
| Year Constructed: Not Specified | Lining Type: No Lining | |
| Inspection Purpose: Routine inspection | Lining Material: No Lining | |

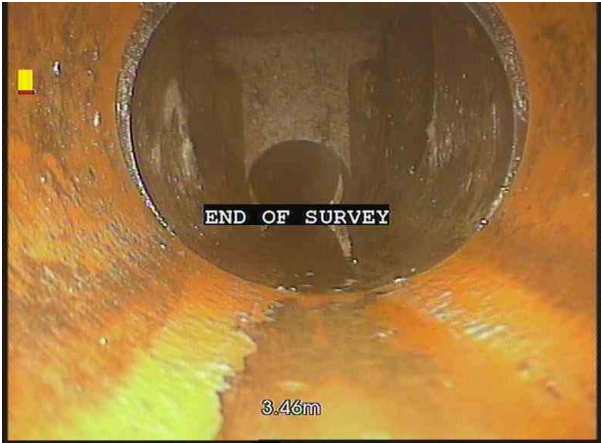
Comments:
Recommendations: -



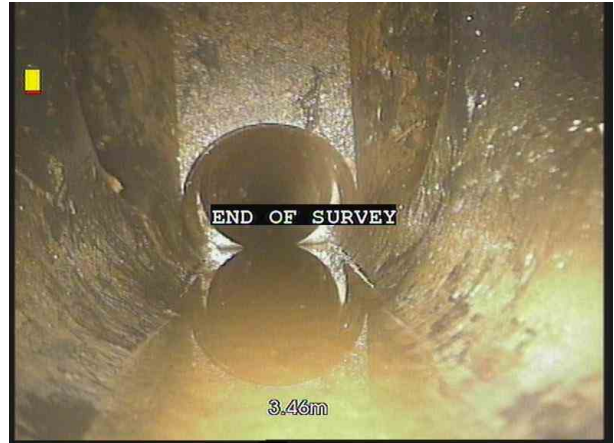
| Construction Features | | | | | Miscellaneous Features | | | | |
|-----------------------|----------|----------|-----------|-----------|------------------------------------|----------|----------|-----------|-----------|
| Structural Defects | | | | | Service & Operational Observations | | | | |
| STR 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 |



| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 6 | Downstream | IC5X | | |



1, 00:01:04, 3.20 m
Pipe material changes to polyvinyl chloride at this point



2, 00:00:38, 3.46 m
Finish node, manhole, reference: IC6

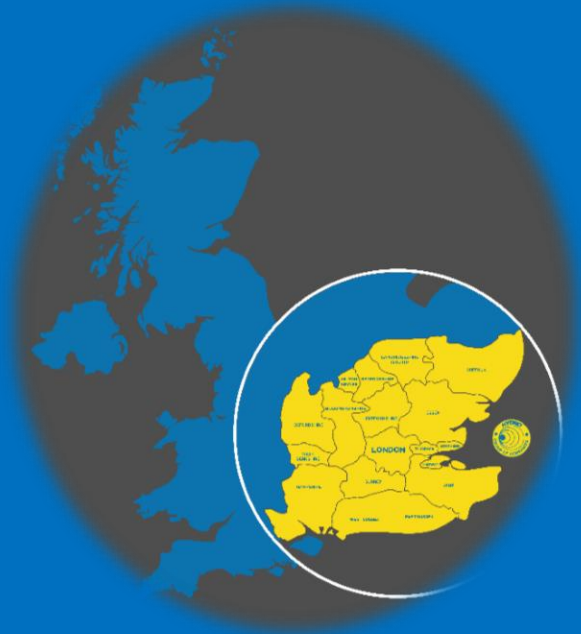


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 Chatham, Kent ME5 8UD
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 VAT No. 573 7537 09

