



## Project

**Project Name:** GR51719\_CCTV  
**Project Description:** CCTV SURVEY  
**Project Number:** GR51719  
**Project Status:** Complete  
**Project Date:** 10/11/2022  
**Inspection Standard:** MSCC5 Sewers & Drainage GB (SRM5 Scoring)



**CCTV  
DRAINAGE  
SURVEYS**

**THE UK'S LEADING  
INTEGRATED  
SURVEY SPECIALISTS**

**0344 499 5220 [www.subscan.com](http://www.subscan.com) [info@subscan.com](mailto:info@subscan.com)**



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GR51719 CCTV

**Project Number**  
GR51719

**Project Date**  
10/11/2022

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## Project Information

**Project Name**  
GR51719 CCTV

**Project Number**  
GR51719

**Project Date**  
10/11/2022

### Client

**Company:** Lochailort Investments  
**Contact:** Hugo Haig  
**Street:** Eagle house, 108-110 Jermyn Street  
**Town or City:** London  
**County:** Greater London  
**Post Code:** SW1Y 6EE  
**Phone:** 0203 468 4933  
**Mobile:** 07983 608208  
**Email:** hugo@lochailort-investments.com



### Site

**Street:** Lanwades Park  
**Town or City:** Kentford, Newmarket  
**County:** Suffolk  
**Post Code:** CB8 7QD

### Contractor

**Company:** Subscan UDS Limited  
**Description:** Subscan House  
**Contact:** Chris Smith  
**Department:** CCTV Coordinator  
**Street:** 126 Whitehall Road  
**Town or City:** Leeds  
**County:** West Yorkshire  
**Post Code:** LS12 1AE  
**Phone:** 0344 499 5220  
**Email:** chris.smith@subscan.com



## Scoring Summary

Project Name  
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### 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      |
|---------|-------|-------|------------------|
| 11      | MH14X | 3     | Multiple defects |

### 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                                                 |
|---------|--------|-------|-------------------------------------------------------------|
| 2       | MH2X   | 3     | Multiple defects                                            |
| 3       | MH3X   | 3     | Multiple defects                                            |
| 4       | MH4X   | 3     | Multiple defects                                            |
| 5       | MH6X   | 3     | Multiple defects                                            |
| 7       | MH7X   | 3     | Joint displaced, medium                                     |
| 8       | MH16X  | 3     | Joint displaced, medium                                     |
| 10      | MH14X  | 5     | Roots, mass at joint, 20% cross-sectional area loss         |
| 12      | MH13AX | 3     | Joint displaced, medium                                     |
| 13      | MH13X  | 3     | Multiple defects                                            |
| 14      | MH12X  | 5     | Roots, mass at joint, 30% cross-sectional area loss, finish |
| 15      | MH11X  | 3     | Multiple defects                                            |

### Information

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

## Section Inspection - 10/11/2022 - MH1X

| Item No. | Insp. No. | Date          | Time | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|----------|-----------|---------------|------|------------------|-----------------|---------------|----------------|
| 1        | 1         | 10/11/22      | 7:41 | Not Specified    | No Rain Or Snow | Yes           | MH1X           |
| Operator |           | Vehicle       |      | Camera           | Preset Length   | Legal Status  | Alternative ID |
| KS01     |           | Not Specified |      | Not Specified    | Not Specified   | Private Sewer | Not Specified  |

|                            |                     |                              |                |                               |     |
|----------------------------|---------------------|------------------------------|----------------|-------------------------------|-----|
| <b>Town or Village:</b>    | Kentford Newmarket  | <b>Inspection Direction:</b> | Upstream       | <b>Upstream Node:</b>         | MH1 |
| <b>Road:</b>               | Lanwades Park       | <b>Inspected Length:</b>     | 14.40 m        | <b>Upstream Pipe Depth:</b>   |     |
| <b>Location:</b>           | Road                | <b>Total Length:</b>         | 14.40 m        | <b>Downstream Node:</b>       | MH2 |
| <b>Surface Type:</b>       |                     | <b>Joint Length:</b>         |                | <b>Downstream Pipe Depth:</b> |     |
| <b>Use:</b>                | Combined            | <b>Pipe Shape:</b>           | Circular       |                               |     |
| <b>Type of Pipe:</b>       | Gravity drain/sewer | <b>Dia/Height:</b>           | 150 mm         |                               |     |
| <b>Flow Control:</b>       | No flow control     | <b>Material:</b>             | Vitrified clay |                               |     |
| <b>Year Constructed:</b>   | Not Specified       | <b>Lining Type:</b>          | No Lining      |                               |     |
| <b>Inspection Purpose:</b> | Other purpose       | <b>Lining Material:</b>      | No Lining      |                               |     |

**Comments:**  
**Recommendations:**

| Scale:                                                                                                                                                        | 1:125 | Position [m] | Code | Observation                               | MPEG     | Photo | Grade |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|------|-------------------------------------------|----------|-------|-------|
| <div> <div>Depth: m</div> <div>MH2</div> <div> <div>0.00</div> <div>0.00</div> </div> <div> <div>14.40</div> <div>MH1</div> <div>Depth: m</div> </div> </div> |       |              |      |                                           |          |       |       |
|                                                                                                                                                               |       | 0.00         | MH   | Start node, manhole, reference: MH2       | 00:00:00 |       |       |
|                                                                                                                                                               |       | 0.00         | WL   | Water level, 5% of the vertical dimension | 00:00:03 |       |       |
|                                                                                                                                                               |       | 14.40        | MHF  | Finish node, manhole, reference: MH1      | 00:02:09 |       |       |

| 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 Pictures - 10/11/2022 - MH2X

| Item No. | Inspection Direction | PLR  | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 2        | Downstream           | MH2X |                  |                      |



1, 00:05:48, 34.60 m  
 Open joint, medium



2, 00:07:38, 44.70 m  
 Joint displaced, medium



3, 00:09:29, 55.60 m  
 Settled deposits, coarse at joint, 5% cross-sectional area loss, start



## Section Pictures - 10/11/2022 - MH3X

| Item No. | Inspection Direction | PLR  | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 3        | Downstream           | MH3X |                  |                      |



1, 00:00:18, 0.70 m  
 Settled deposits, hard or compacted, 5% cross-sectional area loss



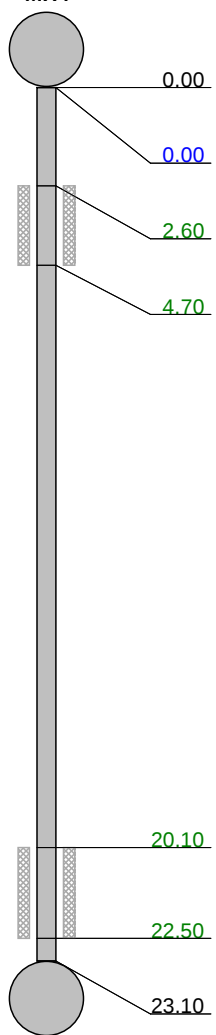
2, 00:00:46, 3.50 m  
 Settled deposits, coarse, 5% cross-sectional area loss

## Section Inspection - 10/11/2022 - MH4X

| Item No. | Insp. No. | Date          | Time | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|----------|-----------|---------------|------|------------------|-----------------|---------------|----------------|
| 4        | 1         | 10/11/22      | 8:34 | Not Specified    | No Rain Or Snow | Yes           | MH4X           |
| Operator |           | Vehicle       |      | Camera           | Preset Length   | Legal Status  | Alternative ID |
| KS01     |           | Not Specified |      | Not Specified    | Not Specified   | Private Sewer | Not Specified  |

|                            |                     |                              |                |                               |     |
|----------------------------|---------------------|------------------------------|----------------|-------------------------------|-----|
| <b>Town or Village:</b>    | Kentford Newmarket  | <b>Inspection Direction:</b> | Downstream     | <b>Upstream Node:</b>         | MH4 |
| <b>Road:</b>               | Lanwades Park       | <b>Inspected Length:</b>     | 23.10 m        | <b>Upstream Pipe Depth:</b>   |     |
| <b>Location:</b>           | Road                | <b>Total Length:</b>         | 23.10 m        | <b>Downstream Node:</b>       | MH5 |
| <b>Surface Type:</b>       |                     | <b>Joint Length:</b>         |                | <b>Downstream Pipe Depth:</b> |     |
| <b>Use:</b>                | Combined            | <b>Pipe Shape:</b>           | Circular       |                               |     |
| <b>Type of Pipe:</b>       | Gravity drain/sewer | <b>Dia/Height:</b>           | 150 mm         |                               |     |
| <b>Flow Control:</b>       | No flow control     | <b>Material:</b>             | Vitrified clay |                               |     |
| <b>Year Constructed:</b>   | Not Specified       | <b>Lining Type:</b>          | No Lining      |                               |     |
| <b>Inspection Purpose:</b> | Other purpose       | <b>Lining Material:</b>      | No Lining      |                               |     |

**Comments:**
**Recommendations:**

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1:200 | Position [m]                                                                 | Code     | Observation | MPEG  | Photo | Grade |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------|----------|-------------|-------|-------|-------|--------------|------|-------------|------|-------|-------|------|----|-------------------------------------|----------|--|--|------|----|-------------------------------------------|----------|--|--|------|-----|---------------------------------------------------------------------------|----------|---|--|------|-----|----------------------------------------------------------------------------|----------|--|---|-------|-----|-----------------------------------------------------------------------------|----------|---|--|-------|-----|------------------------------------------------------------------------------|----------|--|---|-------|-----|--------------------------------------|----------|--|--|
| <div><div><div>Depth: m</div><div>MH4</div></div><table><tr><th>Position [m]</th><th>Code</th><th>Observation</th><th>MPEG</th><th>Photo</th><th>Grade</th></tr><tr><td>0.00</td><td>MH</td><td>Start node, manhole, reference: MH4</td><td>00:00:00</td><td></td><td></td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:00:04</td><td></td><td></td></tr><tr><td>2.60</td><td>S01</td><td>DESJ Settled deposits, fine at joint, 5% cross-sectional area loss, start</td><td>00:00:35</td><td>1</td><td></td></tr><tr><td>4.70</td><td>F01</td><td>DESJ Settled deposits, fine at joint, 5% cross-sectional area loss, finish</td><td>00:00:57</td><td></td><td>3</td></tr><tr><td>20.10</td><td>S02</td><td>DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, start</td><td>00:04:12</td><td>2</td><td></td></tr><tr><td>22.50</td><td>F02</td><td>DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, finish</td><td>00:04:26</td><td></td><td>3</td></tr><tr><td>23.10</td><td>MHF</td><td>Finish node, manhole, reference: MH5</td><td>00:04:42</td><td></td><td></td></tr></table></div> <div><div>Depth: m</div><div>MH5</div></div> |       |                                                                              |          |             |       |       |       | Position [m] | Code | Observation | MPEG | Photo | Grade | 0.00 | MH | Start node, manhole, reference: MH4 | 00:00:00 |  |  | 0.00 | WL | Water level, 5% of the vertical dimension | 00:00:04 |  |  | 2.60 | S01 | DESJ Settled deposits, fine at joint, 5% cross-sectional area loss, start | 00:00:35 | 1 |  | 4.70 | F01 | DESJ Settled deposits, fine at joint, 5% cross-sectional area loss, finish | 00:00:57 |  | 3 | 20.10 | S02 | DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, start | 00:04:12 | 2 |  | 22.50 | F02 | DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, finish | 00:04:26 |  | 3 | 23.10 | MHF | Finish node, manhole, reference: MH5 | 00:04:42 |  |  |
| Position [m]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Code  | Observation                                                                  | MPEG     | Photo       | Grade |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MH    | Start node, manhole, reference: MH4                                          | 00:00:00 |             |       |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | WL    | Water level, 5% of the vertical dimension                                    | 00:00:04 |             |       |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 2.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | S01   | DESJ Settled deposits, fine at joint, 5% cross-sectional area loss, start    | 00:00:35 | 1           |       |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 4.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | F01   | DESJ Settled deposits, fine at joint, 5% cross-sectional area loss, finish   | 00:00:57 |             | 3     |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 20.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S02   | DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, start  | 00:04:12 | 2           |       |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 22.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | F02   | DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, finish | 00:04:26 |             | 3     |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |
| 23.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | MHF   | Finish node, manhole, reference: MH5                                         | 00:04:42 |             |       |       |       |              |      |             |      |       |       |      |    |                                     |          |  |  |      |    |                                           |          |  |  |      |     |                                                                           |          |   |  |      |     |                                                                            |          |  |   |       |     |                                                                             |          |   |  |       |     |                                                                              |          |  |   |       |     |                                      |          |  |  |

**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           | 2.0      | 0.5      | 12.0      | 3.0       |

## Section Pictures - 10/11/2022 - MH4X

| Item No. | Inspection Direction | PLR  | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 4        | Downstream           | MH4X |                  |                      |



1, 00:00:35, 2.60 m  
 Settled deposits, fine at joint, 5% cross-sectional area loss,  
 start



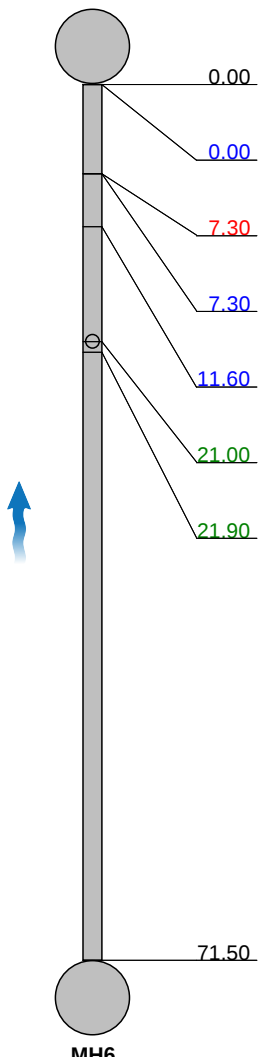
2, 00:04:12, 20.10 m  
 Settled deposits, coarse at joint, 5% cross-sectional area loss,  
 start

## Section Inspection - 10/11/2022 - MH6X

| Item No. | Insp. No. | Date          | Time | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|----------|-----------|---------------|------|------------------|-----------------|---------------|----------------|
| 5        | 1         | 10/11/22      | 8:54 | Not Specified    | No Rain Or Snow | Yes           | MH6X           |
| Operator |           | Vehicle       |      | Camera           | Preset Length   | Legal Status  | Alternative ID |
| KS01     |           | Not Specified |      | Not Specified    | Not Specified   | Private Sewer | Not Specified  |

|                            |                     |                              |                |                               |     |
|----------------------------|---------------------|------------------------------|----------------|-------------------------------|-----|
| <b>Town or Village:</b>    | Kentford Newmarket  | <b>Inspection Direction:</b> | Upstream       | <b>Upstream Node:</b>         | MH6 |
| <b>Road:</b>               | Lanwades Park       | <b>Inspected Length:</b>     | 71.50 m        | <b>Upstream Pipe Depth:</b>   |     |
| <b>Location:</b>           | Road                | <b>Total Length:</b>         | 71.50 m        | <b>Downstream Node:</b>       | MH5 |
| <b>Surface Type:</b>       |                     | <b>Joint Length:</b>         |                | <b>Downstream Pipe Depth:</b> |     |
| <b>Use:</b>                | Combined            | <b>Pipe Shape:</b>           | Circular       |                               |     |
| <b>Type of Pipe:</b>       | Gravity drain/sewer | <b>Dia/Height:</b>           | 225 mm         |                               |     |
| <b>Flow Control:</b>       | No flow control     | <b>Material:</b>             | Vitrified clay |                               |     |
| <b>Year Constructed:</b>   | Not Specified       | <b>Lining Type:</b>          | No Lining      |                               |     |
| <b>Inspection Purpose:</b> | Other purpose       | <b>Lining Material:</b>      | No Lining      |                               |     |

|                         |  |
|-------------------------|--|
| <b>Comments:</b>        |  |
| <b>Recommendations:</b> |  |

| Scale:                                                                                                                                                                                                                        | 1:617 | Position [m] | Code | Observation                                                                                 | MPEG     | Photo | Grade |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|------|---------------------------------------------------------------------------------------------|----------|-------|-------|
| <div> <div> <div>Depth: m</div> <div>MH5</div> <div>  </div> </div> <div> <div>71.50</div> <div>MH6</div> <div>Depth: m</div> </div> </div> |       |              |      |                                                                                             |          |       |       |
|                                                                                                                                                                                                                               |       | 0.00         | MH   | Start node, manhole, reference: MH5                                                         | 00:00:00 |       |       |
|                                                                                                                                                                                                                               |       | 0.00         | WL   | Water level, 5% of the vertical dimension                                                   | 00:00:04 |       |       |
|                                                                                                                                                                                                                               |       | 7.30         | JDM  | Joint displaced, medium                                                                     | 00:01:04 | 1     | 1 / 3 |
|                                                                                                                                                                                                                               |       | 7.30         | WL   | Water level, 10% of the vertical dimension                                                  | 00:01:06 |       |       |
|                                                                                                                                                                                                                               |       | 11.60        | WL   | Water level, 5% of the vertical dimension                                                   | 00:01:31 |       |       |
|                                                                                                                                                                                                                               |       | 21.00        | CXI  | Connection defective, connecting pipe is intruding at 12 o'clock, 150mm dia, intrusion: 10% | 00:03:03 | 2     | 3     |
|                                                                                                                                                                                                                               |       | 21.90        | RF   | Roots, fine                                                                                 | 00:03:22 |       | 2     |
|                                                                                                                                                                                                                               |       | 71.50        | MHF  | Finish node, manhole, reference: MH6                                                        | 00:28:05 |       |       |

| 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      | 0.0      | 1.0       | 1.0       | 3                                  | 2.0      | 0.1      | 5.0       | 3.0       |

## Section Pictures - 10/11/2022 - MH6X

| Item No. | Inspection Direction | PLR  | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 5        | Upstream             | MH6X |                  |                      |



1, 00:01:04, 7.30 m  
 Joint displaced, medium



2, 00:03:03, 21.00 m  
 Connection defective, connecting pipe is intruding at 12 o'clock, 150mm dia, intrusion: 10%



|                         |                       |                                 |                      |                                          |                                       |                                      |                                        |
|-------------------------|-----------------------|---------------------------------|----------------------|------------------------------------------|---------------------------------------|--------------------------------------|----------------------------------------|
| <b>Item No.</b><br>6    | <b>Insp. No.</b><br>1 | <b>Date</b><br>10/11/22         | <b>Time</b><br>10:26 | <b>Client's Job Ref</b><br>Not Specified | <b>Weather</b><br>No Rain Or Snow     | <b>Pre Cleaned</b><br>Yes            | <b>PLR</b><br>MH5X                     |
| <b>Operator</b><br>KS01 |                       | <b>Vehicle</b><br>Not Specified |                      | <b>Camera</b><br>Not Specified           | <b>Preset Length</b><br>Not Specified | <b>Legal Status</b><br>Private Sewer | <b>Alternative ID</b><br>Not Specified |

|                            |                     |                              |                |                               |     |
|----------------------------|---------------------|------------------------------|----------------|-------------------------------|-----|
| <b>Town or Village:</b>    | Kentford Newmarket  | <b>Inspection Direction:</b> | Downstream     | <b>Upstream Node:</b>         | MH5 |
| <b>Road:</b>               | Lanwades Park       | <b>Inspected Length:</b>     | 14.20 m        | <b>Upstream Pipe Depth:</b>   |     |
| <b>Location:</b>           | Road                | <b>Total Length:</b>         | 14.20 m        | <b>Downstream Node:</b>       | MH7 |
| <b>Surface Type:</b>       |                     | <b>Joint Length:</b>         |                | <b>Downstream Pipe Depth:</b> |     |
| <b>Use:</b>                | Combined            | <b>Pipe Shape:</b>           | Circular       |                               |     |
| <b>Type of Pipe:</b>       | Gravity drain/sewer | <b>Dia/Height:</b>           | 225 mm         |                               |     |
| <b>Flow Control:</b>       | No flow control     | <b>Material:</b>             | Vitrified clay |                               |     |
| <b>Year Constructed:</b>   | Not Specified       | <b>Lining Type:</b>          | No Lining      |                               |     |
| <b>Inspection Purpose:</b> | Other purpose       | <b>Lining Material:</b>      | No Lining      |                               |     |

### Recommendations:

| Scale:                                                                    | 1:123 | Position [m] | Code                                      | Observation | MPEG     | Photo | Grade |
|---------------------------------------------------------------------------|-------|--------------|-------------------------------------------|-------------|----------|-------|-------|
| <div> <div> <div>Depth: m</div> <div>MH5</div> <div> </div> </div> </div> |       |              |                                           |             |          |       |       |
|                                                                           | 0.00  | MH           | Start node, manhole, reference: MH5       |             | 00:00:00 |       |       |
|                                                                           | 0.00  | WL           | Water level, 5% of the vertical dimension |             | 00:00:03 |       |       |
|                                                                           | 14.20 | MHF          | Finish node, manhole, reference: MH7      |             | 00:01:31 |       |       |

| 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 Pictures - 10/11/2022 - MH7X

| Item No. | Inspection Direction | PLR  | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|------|------------------|----------------------|
| 7        | Downstream           | MH7X |                  |                      |



1, 00:01:29, 10.90 m  
 Joint displaced, medium



## Section Pictures - 10/11/2022 - MH16X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 8        | Upstream             | MH16X |                  |                      |



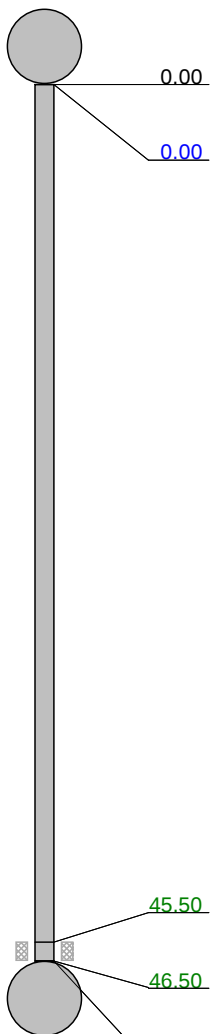
1, 00:03:49, 25.20 m  
 Joint displaced, medium

## Section Inspection - 10/11/2022 - MH15X

| Item No. | Insp. No. | Date          | Time  | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|----------|-----------|---------------|-------|------------------|-----------------|---------------|----------------|
| 9        | 1         | 10/11/22      | 12:32 | Not Specified    | No Rain Or Snow | Yes           | MH15X          |
| Operator |           | Vehicle       |       | Camera           | Preset Length   | Legal Status  | Alternative ID |
| KS01     |           | Not Specified |       | Not Specified    | Not Specified   | Private Sewer | Not Specified  |

|                            |                     |                              |                |                               |      |
|----------------------------|---------------------|------------------------------|----------------|-------------------------------|------|
| <b>Town or Village:</b>    | Kentford Newmarket  | <b>Inspection Direction:</b> | Downstream     | <b>Upstream Node:</b>         | MH15 |
| <b>Road:</b>               | Lanwades Park       | <b>Inspected Length:</b>     | 46.50 m        | <b>Upstream Pipe Depth:</b>   |      |
| <b>Location:</b>           | Verge               | <b>Total Length:</b>         | 46.50 m        | <b>Downstream Node:</b>       | MH14 |
| <b>Surface Type:</b>       |                     | <b>Joint Length:</b>         |                | <b>Downstream Pipe Depth:</b> |      |
| <b>Use:</b>                | Combined            | <b>Pipe Shape:</b>           | Circular       |                               |      |
| <b>Type of Pipe:</b>       | Gravity drain/sewer | <b>Dia/Height:</b>           | 150 mm         |                               |      |
| <b>Flow Control:</b>       | No flow control     | <b>Material:</b>             | Vitrified clay |                               |      |
| <b>Year Constructed:</b>   | Not Specified       | <b>Lining Type:</b>          | No Lining      |                               |      |
| <b>Inspection Purpose:</b> | Other purpose       | <b>Lining Material:</b>      | No Lining      |                               |      |

**Comments:**  
**Recommendations:**

| Scale:                                                                                                                              | 1:401 | Position [m] | Code | Observation                               | MPEG     | Photo | Grade |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|------|-------------------------------------------|----------|-------|-------|
| <div> <div>Depth: m</div> <div>MH15</div>  </div> |       |              |      |                                           |          |       |       |
|                                                                                                                                     | 0.00  | MH           |      | Start node, manhole, reference: MH15      | 00:00:00 |       |       |
|                                                                                                                                     | 0.00  | WL           |      | Water level, 5% of the vertical dimension | 00:00:03 |       |       |
|                                                                                                                                     | 45.50 | S01          | RF   | Roots, fine, start                        | 00:05:52 | 1     |       |
|                                                                                                                                     | 46.50 | F01          | RF   | Roots, fine, finish                       | 00:06:33 |       | 2     |
|                                                                                                                                     | 46.50 | MHF          |      | Finish node, manhole, reference: MH14     | 00:06:38 |       |       |

| 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                                  | 1.0      | 0.0      | 1.0       | 2.0       |

## Section Pictures - 10/11/2022 - MH15X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 9        | Downstream           | MH15X |                  |                      |



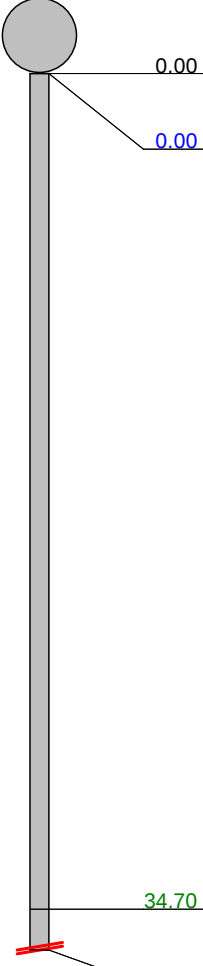
1, 00:05:52, 45.50 m  
Roots, fine, start

## Section Inspection - 10/11/2022 - MH14X

|                  |                |                          |               |                                   |                                |                               |                                 |
|------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>10   | Insp. No.<br>1 | Date<br>10/11/22         | Time<br>12:40 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>Yes            | PLR<br>MH14X                    |
| Operator<br>KS01 |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Private Sewer | Alternative ID<br>Not Specified |

|                     |                     |                       |                |                        |      |
|---------------------|---------------------|-----------------------|----------------|------------------------|------|
| Town or Village:    | Kentford Newmarket  | Inspection Direction: | Downstream     | Upstream Node:         | MH14 |
| Road:               | Lanwades Park       | Inspected Length:     | 36.40 m        | Upstream Pipe Depth:   |      |
| Location:           | Verge               | Total Length:         | 36.40 m        | Downstream Node:       | MH13 |
| Surface Type:       |                     | Joint Length:         |                | Downstream Pipe Depth: |      |
| Use:                | Combined            | 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: | Other purpose       | Lining Material:      | No Lining      |                        |      |

Comments:  
Recommendations:

| Scale: 1:314                                                                                                                        | Position [m] | Code | Observation                                         | MPEG     | Photo | Grade |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------|------|-----------------------------------------------------|----------|-------|-------|
| <div> <div>Depth: m</div> <div>MH14</div>  </div> |              |      |                                                     |          |       |       |
|                                                                                                                                     | 0.00         | MH   | Start node, manhole, reference: MH14                | 00:00:00 |       |       |
|                                                                                                                                     | 0.00         | WL   | Water level, 5% of the vertical dimension           | 00:00:03 |       |       |
|                                                                                                                                     | 34.70        | RMJ  | Roots, mass at joint, 20% cross-sectional area loss | 00:07:01 | 1     | 5     |
|                                                                                                                                     | 36.40        | SA   | Survey abandoned: RMJ                               | 00:14:09 |       |       |

| 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                                  | 10.0     | 0.3      | 10.0      | 5.0       |

## Section Pictures - 10/11/2022 - MH14X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 10       | Downstream           | MH14X |                  |                      |



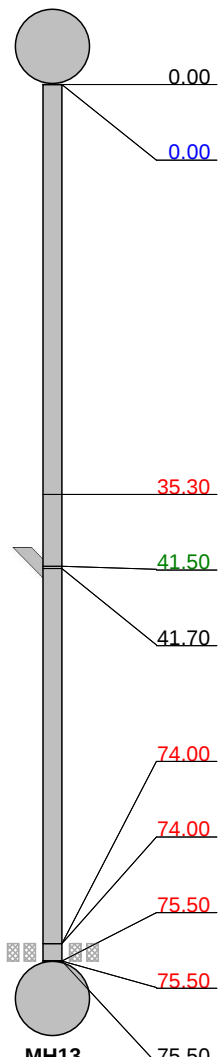
1, 00:07:01, 34.70 m  
 Roots, mass at joint, 20% cross-sectional area loss

## Section Inspection - 10/11/2022 - MH14X

|                  |                |                          |               |                                   |                                |                               |                                 |
|------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>11   | Insp. No.<br>1 | Date<br>10/11/22         | Time<br>13:12 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>Yes            | PLR<br>MH14X                    |
| Operator<br>KS01 |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Private Sewer | Alternative ID<br>Not Specified |

|                     |                     |                       |                |                        |      |
|---------------------|---------------------|-----------------------|----------------|------------------------|------|
| Town or Village:    | Kentford Newmarket  | Inspection Direction: | Downstream     | Upstream Node:         | MH14 |
| Road:               | Lanwades Park       | Inspected Length:     | 75.50 m        | Upstream Pipe Depth:   |      |
| Location:           | Verge               | Total Length:         | 75.50 m        | Downstream Node:       | MH13 |
| Surface Type:       |                     | Joint Length:         |                | Downstream Pipe Depth: |      |
| Use:                | Combined            | 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: | Other purpose       | Lining Material:      | No Lining      |                        |      |

Comments:  
Recommendations:

| Scale: 1:651                                                                                                                        | Position [m] | Code | Observation                                          | MPEG     | Photo | Grade |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------------------------------------------------|----------|-------|-------|
| <div> <div>Depth: m</div> <div>MH14</div>  </div> |              |      |                                                      |          |       |       |
| 0.00                                                                                                                                | MH           |      | Start node, manhole, reference: MH14                 | 00:00:00 |       |       |
| 0.00                                                                                                                                | WL           |      | Water level, 5% of the vertical dimension            | 00:00:05 |       |       |
| 35.30                                                                                                                               | JDM          |      | Joint displaced, medium                              | 00:05:38 | 1     | 1 / 3 |
| 41.50                                                                                                                               | RMJ          |      | Roots, mass at joint, 5% cross-sectional area loss   | 00:06:42 | 2     | 3     |
| 41.70                                                                                                                               | JN           |      | Junction at 3 o'clock, 100mm dia                     | 00:06:51 |       |       |
| 74.00 S01                                                                                                                           | FLJ          |      | Fracture, longitudinal at joint at 3 o'clock, start  | 00:22:26 | 3     |       |
| 74.00 S02                                                                                                                           | FLJ          |      | Fracture, longitudinal at joint at 9 o'clock, start  | 00:22:26 | 4     |       |
| 75.50 F01                                                                                                                           | FLJ          |      | Fracture, longitudinal at joint at 3 o'clock, finish | 00:22:26 |       | 3 / 2 |
| 75.50 F02                                                                                                                           | FLJ          |      | Fracture, longitudinal at joint at 9 o'clock, finish | 00:22:26 |       | 3 / 2 |
| 75.50                                                                                                                               | MHF          |      | Finish node, manhole, reference: MH13                | 00:24:13 |       |       |
| <div> <div>Depth: m</div> <div>MH13</div> </div>                                                                                    |              |      |                                                      |          |       |       |

| 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 |
| 3                     | 1.0      | 1.0      | 79.0      | 3.0       | 4                                  | 4.0      | 0.1      | 4.0       | 3.0       |

## Section Pictures - 10/11/2022 - MH14X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 11       | Downstream           | MH14X |                  |                      |



1, 00:05:38, 35.30 m  
 Joint displaced, medium



2, 00:06:42, 41.50 m  
 Roots, mass at joint, 5% cross-sectional area loss



3, 00:22:26, 74.00 m  
 Fracture, longitudinal at joint at 3 o'clock, start



4, 00:22:26, 74.00 m  
 Fracture, longitudinal at joint at 9 o'clock, start

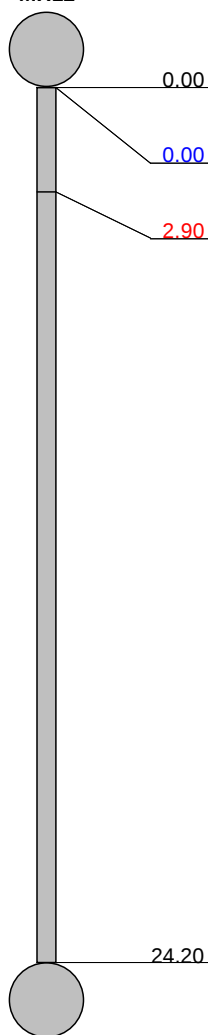
## Section Inspection - 11/11/2022 - MH13AX

|                  |                |                          |              |                                   |                                |                               |                                 |
|------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>12   | Insp. No.<br>1 | Date<br>11/11/22         | Time<br>8:19 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>Yes            | PLR<br>MH13AX                   |
| Operator<br>KS01 |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Private Sewer | Alternative ID<br>Not Specified |

|                     |                     |                       |                |                        |       |
|---------------------|---------------------|-----------------------|----------------|------------------------|-------|
| Town or Village:    | Kentford Newmarket  | Inspection Direction: | Upstream       | Upstream Node:         | MH13A |
| Road:               | Lanwades Park       | Inspected Length:     | 24.20 m        | Upstream Pipe Depth:   |       |
| Location:           | Road                | Total Length:         | 24.20 m        | Downstream Node:       | MH12  |
| Surface Type:       |                     | Joint Length:         |                | Downstream Pipe Depth: |       |
| Use:                | Combined            | 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: | Other purpose       | Lining Material:      | No Lining      |                        |       |

Comments:

Recommendations:

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1:209 | Position [m] | Code | Observation                            | MPEG     | Photo | Grade |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------|------|----------------------------------------|----------|-------|-------|
| <div><div><div>Depth: m</div><div>MH12</div></div><div><div>0.00</div><div>0.00</div><div>2.90</div></div><div><div>MH</div><div>WL</div><div>JDM</div></div><div><div>Start node, manhole, reference: MH12</div><div>Water level, 5% of the vertical dimension</div><div>Joint displaced, medium</div></div><div><div>00:00:00</div><div>00:00:03</div><div>00:00:25</div></div><div><div></div><div>1</div><div></div></div><div><div></div><div></div><div>1 / 3</div></div></div> |       |              |      |                                        |          |       |       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |       | 24.20        | MHF  | Finish node, manhole, reference: MH13A | 00:04:43 |       |       |
| <div><div><div>Construction Features</div><div><div>STR No. Def</div><div>STR Peak</div><div>STR Mean</div><div>STR Total</div><div>STR Grade</div></div></div><div><div>Miscellaneous Features</div><div><div>SER No. Def</div><div>SER Peak</div><div>SER Mean</div><div>SER Total</div><div>SER Grade</div></div></div></div>                                                                                                                                                                                                                                        |       |              |      |                                        |          |       |       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |
| 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.0   | 0.0          | 1.0  | 1.0                                    | 1        | 2.0   | 0.1   |

## Section Pictures - 11/11/2022 - MH13AX

| Item No. | Inspection Direction | PLR    | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|--------|------------------|----------------------|
| 12       | Upstream             | MH13AX |                  |                      |



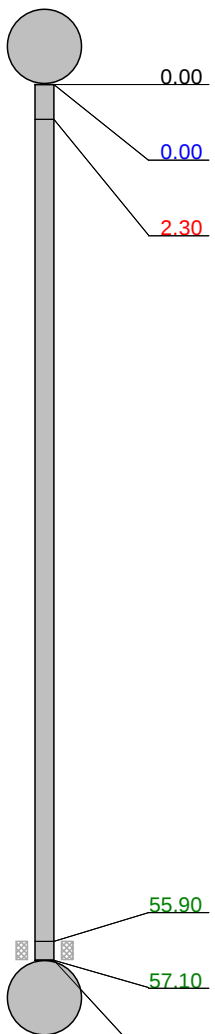
1, 00:00:25, 2.90 m  
Joint displaced, medium

## Section Inspection - 11/11/2022 - MH13X

|                  |                |                          |              |                                   |                                |                               |                                 |
|------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>13   | Insp. No.<br>1 | Date<br>11/11/22         | Time<br>8:25 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>Yes            | PLR<br>MH13X                    |
| Operator<br>KS01 |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Private Sewer | Alternative ID<br>Not Specified |

|                     |                     |                       |                |                        |       |
|---------------------|---------------------|-----------------------|----------------|------------------------|-------|
| Town or Village:    | Kentford Newmarket  | Inspection Direction: | Upstream       | Upstream Node:         | MH13  |
| Road:               | Lanwades Park       | Inspected Length:     | 57.10 m        | Upstream Pipe Depth:   |       |
| Location:           | Road                | Total Length:         | 57.10 m        | Downstream Node:       | MH13A |
| Surface Type:       |                     | Joint Length:         |                | Downstream Pipe Depth: |       |
| Use:                | Combined            | 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: | Other purpose       | Lining Material:      | No Lining      |                        |       |

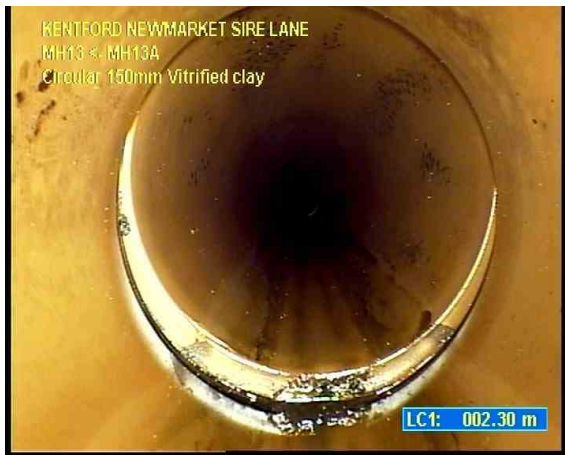
Comments:  
Recommendations:

| Scale: 1:493                                                                                                                         | Position [m] | Code | Observation                               | MPEG                                                        | Photo    | Grade |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------|------|-------------------------------------------|-------------------------------------------------------------|----------|-------|
| <div> <div>Depth: m</div> <div>MH13A</div>  </div> |              |      |                                           |                                                             |          |       |
|                                                                                                                                      | 0.00         | MH   | Start node, manhole, reference: MH13A     | 00:00:00                                                    |          |       |
|                                                                                                                                      | 0.00         | WL   | Water level, 0% of the vertical dimension | 00:00:04                                                    |          |       |
|                                                                                                                                      | 2.30         | JDM  | Joint displaced, medium                   | 00:00:27                                                    | 1        | 1 / 3 |
|                                                                                                                                      | 55.90        | S01  | RMJ                                       | Roots, mass at joint, 10% cross-sectional area loss, start  | 00:14:30 | 2     |
|                                                                                                                                      | 57.10        | F01  | RMJ                                       | Roots, mass at joint, 10% cross-sectional area loss, finish | 00:14:36 | 3     |
|                                                                                                                                      | 57.10        | MHF  | Finish node, manhole, reference: MH13     | 00:14:43                                                    |          |       |
| <div> <div>MH13</div> <div>Depth: m</div> </div>                                                                                     |              |      |                                           |                                                             |          |       |

| 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      | 0.0      | 1.0       | 1.0       | 2                                  | 4.0      | 0.2      | 10.0      | 3.0       |

## Section Pictures - 11/11/2022 - MH13X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 13       | Upstream             | MH13X |                  |                      |



1, 00:00:27, 2.30 m  
Joint displaced, medium



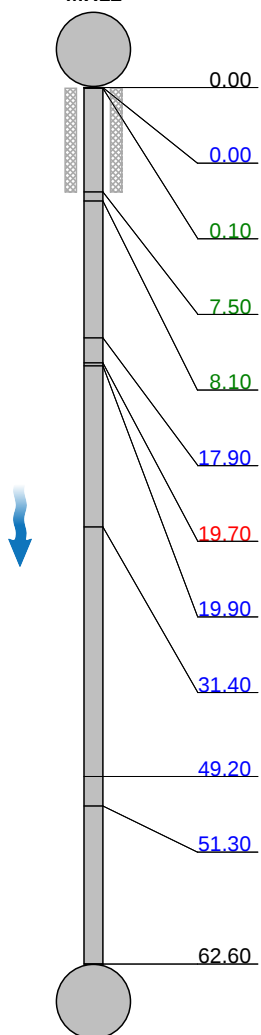
2, 00:14:30, 55.90 m  
Roots, mass at joint, 10% cross-sectional area loss, start

## Section Inspection - 11/11/2022 - MH12X

|                  |                |                          |              |                                   |                                |                               |                                 |
|------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>14   | Insp. No.<br>1 | Date<br>11/11/22         | Time<br>9:23 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>Yes            | PLR<br>MH12X                    |
| Operator<br>KS01 |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Private Sewer | Alternative ID<br>Not Specified |

|                     |                     |                       |                |                        |      |
|---------------------|---------------------|-----------------------|----------------|------------------------|------|
| Town or Village:    | Kentford Newmarket  | Inspection Direction: | Downstream     | Upstream Node:         | MH12 |
| Road:               | Lanwades Park       | Inspected Length:     | 62.60 m        | Upstream Pipe Depth:   |      |
| Location:           | Road                | Total Length:         | 62.60 m        | Downstream Node:       | MH11 |
| Surface Type:       |                     | Joint Length:         |                | Downstream Pipe Depth: |      |
| Use:                | Combined            | 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: | Other purpose       | Lining Material:      | No Lining      |                        |      |

Comments:  
Recommendations:

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1:540 | Position [m]                               | Code     | Observation | MPEG  | Photo | Grade |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------|----------|-------------|-------|-------|-------|--------------|------|-------------|------|-------|-------|------|----|--------------------------------------|----------|--|--|------|----|-------------------------------------------|----------|--|--|------|-----|-----|----------|---|--|------|-----|-----|----------|--|---|------|-----|----------------------|----------|---|---|-------|----|--------------------------------------------|----------|--|--|-------|-----|-------------------------|----------|---|-------|-------|----|-------------------------------------------|----------|--|--|-------|----|-------------------------------------------|----------|--|--|-------|----|--------------------------------------------|----------|--|--|-------|----|-------------------------------------------|----------|--|--|-------|-----|---------------------------------------|----------|--|--|
| <div><div><div>Depth: m</div><div>MH12</div></div><table><tr><th>Position [m]</th><th>Code</th><th>Observation</th><th>MPEG</th><th>Photo</th><th>Grade</th></tr><tr><td>0.00</td><td>MH</td><td>Start node, manhole, reference: MH12</td><td>00:00:00</td><td></td><td></td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:00:05</td><td></td><td></td></tr><tr><td>0.10</td><td>S01</td><td>RMJ</td><td>00:00:25</td><td>1</td><td></td></tr><tr><td>7.50</td><td>F01</td><td>RMJ</td><td>00:01:20</td><td></td><td>5</td></tr><tr><td>8.10</td><td>RFJ</td><td>Roots, fine at joint</td><td>00:01:29</td><td>2</td><td>2</td></tr><tr><td>17.90</td><td>WL</td><td>Water level, 10% of the vertical dimension</td><td>00:02:29</td><td></td><td></td></tr><tr><td>19.70</td><td>JDM</td><td>Joint displaced, medium</td><td>00:02:33</td><td>3</td><td>1 / 3</td></tr><tr><td>19.90</td><td>WL</td><td>Water level, 0% of the vertical dimension</td><td>00:02:37</td><td></td><td></td></tr><tr><td>31.40</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:03:45</td><td></td><td></td></tr><tr><td>49.20</td><td>WL</td><td>Water level, 10% of the vertical dimension</td><td>00:05:30</td><td></td><td></td></tr><tr><td>51.30</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td>00:05:43</td><td></td><td></td></tr><tr><td>62.60</td><td>MHF</td><td>Finish node, manhole, reference: MH11</td><td>00:08:10</td><td></td><td></td></tr></table><div><div>Depth: m</div><div>MH11</div></div></div> |       |                                            |          |             |       |       |       | Position [m] | Code | Observation | MPEG | Photo | Grade | 0.00 | MH | Start node, manhole, reference: MH12 | 00:00:00 |  |  | 0.00 | WL | Water level, 5% of the vertical dimension | 00:00:05 |  |  | 0.10 | S01 | RMJ | 00:00:25 | 1 |  | 7.50 | F01 | RMJ | 00:01:20 |  | 5 | 8.10 | RFJ | Roots, fine at joint | 00:01:29 | 2 | 2 | 17.90 | WL | Water level, 10% of the vertical dimension | 00:02:29 |  |  | 19.70 | JDM | Joint displaced, medium | 00:02:33 | 3 | 1 / 3 | 19.90 | WL | Water level, 0% of the vertical dimension | 00:02:37 |  |  | 31.40 | WL | Water level, 5% of the vertical dimension | 00:03:45 |  |  | 49.20 | WL | Water level, 10% of the vertical dimension | 00:05:30 |  |  | 51.30 | WL | Water level, 5% of the vertical dimension | 00:05:43 |  |  | 62.60 | MHF | Finish node, manhole, reference: MH11 | 00:08:10 |  |  |
| Position [m]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Code  | Observation                                | MPEG     | Photo       | Grade |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | MH    | Start node, manhole, reference: MH12       | 00:00:00 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WL    | Water level, 5% of the vertical dimension  | 00:00:05 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 0.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | S01   | RMJ                                        | 00:00:25 | 1           |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 7.50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | F01   | RMJ                                        | 00:01:20 |             | 5     |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 8.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | RFJ   | Roots, fine at joint                       | 00:01:29 | 2           | 2     |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 17.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WL    | Water level, 10% of the vertical dimension | 00:02:29 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 19.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | JDM   | Joint displaced, medium                    | 00:02:33 | 3           | 1 / 3 |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 19.90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WL    | Water level, 0% of the vertical dimension  | 00:02:37 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 31.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WL    | Water level, 5% of the vertical dimension  | 00:03:45 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 49.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WL    | Water level, 10% of the vertical dimension | 00:05:30 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 51.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WL    | Water level, 5% of the vertical dimension  | 00:05:43 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |
| 62.60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MHF   | Finish node, manhole, reference: MH11      | 00:08:10 |             |       |       |       |              |      |             |      |       |       |      |    |                                      |          |  |  |      |    |                                           |          |  |  |      |     |     |          |   |  |      |     |     |          |  |   |      |     |                      |          |   |   |       |    |                                            |          |  |  |       |     |                         |          |   |       |       |    |                                           |          |  |  |       |    |                                           |          |  |  |       |    |                                            |          |  |  |       |    |                                           |          |  |  |       |     |                                       |          |  |  |

| 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      | 0.0      | 1.0       | 1.0       | 3                                  | 12.0     | 1.3      | 83.0      | 5.0       |

## Section Pictures - 11/11/2022 - MH12X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 14       | Downstream           | MH12X |                  |                      |



1, 00:00:25, 0.10 m  
 Roots, mass at joint, 30% cross-sectional area loss, start



2, 00:01:29, 8.10 m  
 Roots, fine at joint



3, 00:02:33, 19.70 m  
 Joint displaced, medium

## Section Inspection - 11/11/2022 - MH11X

|                  |                |                          |               |                                   |                                |                               |                                 |
|------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>15   | Insp. No.<br>1 | Date<br>11/11/22         | Time<br>10:25 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>Yes            | PLR<br>MH11X                    |
| Operator<br>KS01 |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Private Sewer | Alternative ID<br>Not Specified |

|                     |                      |                       |                |                        |      |
|---------------------|----------------------|-----------------------|----------------|------------------------|------|
| Town or Village:    | Kentford Newmarket   | Inspection Direction: | Upstream       | Upstream Node:         | MH11 |
| Road:               | Lanwades Park        | Inspected Length:     | 69.70 m        | Upstream Pipe Depth:   |      |
| Location:           | Fields, farmland etc | Total Length:         | 69.70 m        | Downstream Node:       | MH6  |
| Surface Type:       |                      | Joint Length:         |                | Downstream Pipe Depth: |      |
| Use:                | Combined             | 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: | Other purpose        | Lining Material:      | No Lining      |                        |      |

Comments:  
Recommendations:

| Scale: 1:601                                                                                                                                                                                                                                                                                  | Position [m] | Code | Observation                                                                  | MPEG     | Photo | Grade |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------------------------------------------------------------------------|----------|-------|-------|
| <div> <div>Depth: m</div> <div>MH6</div> <div>0.00</div> <div>0.00</div> <div>38.50</div> <div>43.30</div> <div>44.70</div> <div>44.70</div> <div>47.70</div> <div>50.80</div> <div>53.80</div> <div>57.00</div> <div>57.50</div> <div>69.70</div> <div>MH11</div> <div>Depth: m</div> </div> |              |      |                                                                              |          |       |       |
|                                                                                                                                                                                                                                                                                               | 0.00         | MH   | Start node, manhole, reference: MH6                                          | 00:00:00 |       |       |
|                                                                                                                                                                                                                                                                                               | 0.00         | WL   | Water level, 5% of the vertical dimension                                    | 00:00:03 |       |       |
|                                                                                                                                                                                                                                                                                               | 38.50        | JDM  | Joint displaced, medium                                                      | 00:10:13 | 1     | 1 / 3 |
|                                                                                                                                                                                                                                                                                               | 43.30        | JDM  | Joint displaced, medium                                                      | 00:14:56 | 2     | 1 / 3 |
|                                                                                                                                                                                                                                                                                               | 44.70        | DEC  | Settled deposits, hard or compacted, 10% cross-sectional area loss           | 00:16:41 | 3     | 3     |
|                                                                                                                                                                                                                                                                                               | 44.70        | WL   | Water level, 10% of the vertical dimension                                   | 00:16:59 |       |       |
|                                                                                                                                                                                                                                                                                               | 47.70        | WL   | Water level, 5% of the vertical dimension                                    | 00:18:05 |       |       |
|                                                                                                                                                                                                                                                                                               | 50.80        | JDM  | Joint displaced, medium                                                      | 00:22:02 | 4     | 1 / 3 |
|                                                                                                                                                                                                                                                                                               | 53.80        | S01  | DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, start  | 00:25:34 | 5     |       |
|                                                                                                                                                                                                                                                                                               | 57.00        | F01  | DERJ Settled deposits, coarse at joint, 5% cross-sectional area loss, finish | 00:25:51 |       | 3     |
|                                                                                                                                                                                                                                                                                               | 57.50        | JDM  | Joint displaced, medium                                                      | 00:26:07 | 6     | 1 / 3 |
|                                                                                                                                                                                                                                                                                               | 69.70        | MHF  | Finish node, manhole, reference: MH11                                        | 00:33:15 |       |       |

| 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 |
| 4                     | 4.0      | 0.1      | 4.0       | 1.0       | 6                                  | 10.0     | 0.3      | 18.0      | 5.0       |

## Section Pictures - 11/11/2022 - MH11X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 15       | Upstream             | MH11X |                  |                      |



1, 00:10:13, 38.50 m  
 Joint displaced, medium



2, 00:14:56, 43.30 m  
 Joint displaced, medium



3, 00:16:41, 44.70 m  
 Settled deposits, hard or compacted, 10% cross-sectional area loss



4, 00:22:02, 50.80 m  
 Joint displaced, medium

## Section Pictures - 11/11/2022 - MH11X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 15       | Upstream             | MH11X |                  |                      |



5, 00:25:34, 53.80 m  
 Settled deposits, coarse at joint, 5% cross-sectional area loss, start



6, 00:26:07, 57.50 m  
 Joint displaced, medium