

# DRAINTECH

*helping to improve the drainage network*

## Drainage Survey Report

**Job Number : 18958**

**Project Number: 1**

**Project Name: 7 Ten Acre Wood-SA13 2SU**

**Company: Spring Design**

**Site Date: 17-06-2024**

Draintech Surveys Ltd| Atlantic House| Chamwood Park| Bridgend| CF31 3PL| 01656 767001| [www.draintech.co.uk](http://www.draintech.co.uk)



## Table of Contents

| Project Name          | Project Number | Project Date |
|-----------------------|----------------|--------------|
| 18958 7 TEN ACRE WOOD |                | 17/06/2024   |

|                                                        |     |
|--------------------------------------------------------|-----|
| Project Information .....                              | P-1 |
| Section Item 1: S/S1 > MHC1 (S/S1X) .....              | 1   |
| Section Item 2: S1 > MHC1 (S1X) .....                  | 2   |
| Section Item 3: S/PG1 > MHC1 (S/PG1X) .....            | 3   |
| Section Item 4: MAINLINE > MHC1 (MAINLINEX) .....      | 4   |
| Section Item 5: MHC1 > MHC2 (MHC1X) .....              | 5   |
| Section Item 6: D/PG1 > MHC2 (D/PG1X) .....            | 6   |
| Section Item 7: S/PG2 > MHC2 (S/PG2X) .....            | 7   |
| Section Item 8: MHC2 > MHC3 (MHC2X) .....              | 8   |
| Section Item 9: MHC3 > MHC4 (MHC3X) .....              | 9   |
| Section Item 10: S2 > MHC4 (S2X) .....                 | 11  |
| Section Item 11: S3 > MHC4 (S3X) .....                 | 13  |
| Section Item 12: MHC4 > MHC5 (MHC4X) .....             | 15  |
| Section Item 13: MHC5 > MHC6 (MHC5X) .....             | 17  |
| Section Item 14: R.E1 > MHC5 (R.E1X) .....             | 19  |
| Section Item 15: SS79867201 > MHC6 (SS79867201X) ..... | 20  |
| Section Item 16: MHC6 > SS79867301 (MHC6X) .....       | 23  |

**Project Information****Project Name**  
18958 7 TEN ACRE WOOD**Project Number****Project Date**  
17/06/2024**Client****Company:** Spring Design  
**Contact:** Chris Williams**Site****Company:** Draintech Surveys Ltd  
**Contact:** Jason Shillito**Contractor****Company:** Draintech Surveys Ltd

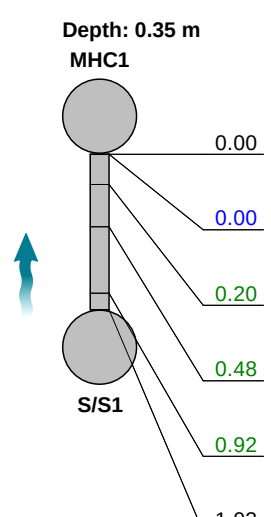
## Section Inspection - 17/06/2024 - S/S1X

| Item No.      | Insp. No. | Date          | Time | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|---------------|-----------|---------------|------|------------------|-----------------|---------------|----------------|
| 1             | 1         | 17/06/24      | 9:33 | Not Specified    | No Rain Or Snow | No            | S/S1X          |
| Operator      |           | Vehicle       |      | Camera           | Preset Length   | Legal Status  | Alternative ID |
| Not Specified |           | Not Specified |      | Not Specified    | Not Specified   | Not Specified | Not Specified  |

|                            |                 |                              |                    |                               |         |
|----------------------------|-----------------|------------------------------|--------------------|-------------------------------|---------|
| <b>Town or Village:</b>    | Margam          | <b>Inspection Direction:</b> | Upstream           | <b>Upstream Node:</b>         | S/S1    |
| <b>Road:</b>               | Ten Acre Wood   | <b>Inspected Length:</b>     | 1.03 m             | <b>Upstream Pipe Depth:</b>   |         |
| <b>Location:</b>           |                 | <b>Total Length:</b>         | 1.03 m             | <b>Downstream Node:</b>       | MHC1    |
| <b>Surface Type:</b>       |                 | <b>Joint Length:</b>         |                    | <b>Downstream Pipe Depth:</b> | 0.350 m |
| <b>Use:</b>                | Foul            | <b>Pipe Shape:</b>           | Circular           |                               |         |
| <b>Type of Pipe:</b>       |                 | <b>Dia/Height:</b>           | 100 mm             |                               |         |
| <b>Flow Control:</b>       | No flow control | <b>Pipe Material:</b>        | Polyvinyl chloride |                               |         |
| <b>Year Constructed:</b>   | Not Specified   | <b>Lining Type:</b>          | No Lining          |                               |         |
| <b>Inspection Purpose:</b> |                 | <b>Lining Material:</b>      | No Lining          |                               |         |

Comments:

Recommendations:

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                                          | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|----------------------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                                      |          |       |       |
| Depth: 0.35 m                                                                      |      |              |      |                                                                      |          |       |       |
| MHC1                                                                               |      |              |      |                                                                      |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC1                      | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension                            |          |       |       |
|                                                                                    |      | 0.20         | LR   | Line deviates right                                                  | 00:00:11 |       |       |
|                                                                                    |      | 0.48         | LR   | Line deviates right                                                  | 00:00:19 |       |       |
|                                                                                    |      | 0.92         | LU   | Line deviates up                                                     |          |       |       |
|                                                                                    |      | 1.03         | OCF  | Finish node, other special chamber, reference: S/S1: REACHED LINE UP | 00:00:30 |       |       |
| S/S1                                                                               |      |              |      |                                                                      |          |       |       |
| Depth: m                                                                           |      |              |      |                                                                      |          |       |       |

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

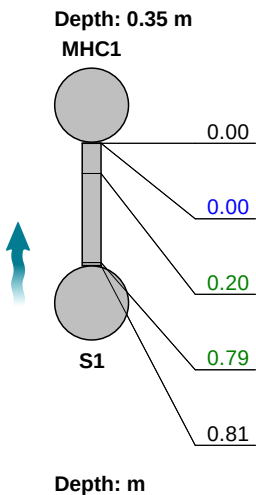
| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 0           | 0.0      | 0.0      | 0.0       | 1.0   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

## Section Inspection - 17/06/2024 - S1X

|                           |                |                          |              |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>2             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>9:34 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>S1X                      |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |         |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream           | Upstream Node:         | S1      |
| Road:               | Ten Acre Wood   | Inspected Length:     | 0.81 m             | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 0.81 m             | Downstream Node:       | MHC1    |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.350 m |
| Use:                | Foul            | Pipe Shape:           | Circular           |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |         |

Comments:  
Recommendations:

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                                                                 | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|---------------------------------------------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                                                             |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC1                                             | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension                                                   |          |       |       |
|                                                                                    |      | 0.20         | DEG  | Attached deposits, grease from 9 o'clock to 3 o'clock, 5% cross-sectional area loss: PATCHY | 00:00:12 |       | 3     |
|                                                                                    |      | 0.79         | LU   | Line deviates up                                                                            |          |       |       |
|                                                                                    |      | 0.81         | OCF  | Finish node, other special chamber, reference: S1: REACHED LINE UP                          | 00:00:24 |       |       |

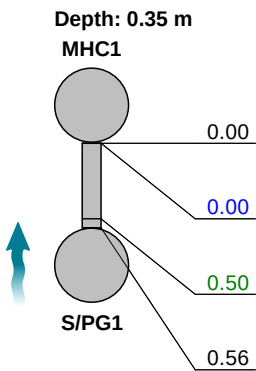
| Construction Features |          |          |           |           | Miscellaneous Features             |          |          |           |           |
|-----------------------|----------|----------|-----------|-----------|------------------------------------|----------|----------|-----------|-----------|
| Structural Defects    |          |          |           |           | Service & Operational Observations |          |          |           |           |
| STR No. Def           | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def                        | SER Peak | SER Mean | SER Total | SER Grade |
| 0                     | 0.0      | 0.0      | 0.0       | 1.0       | 1                                  | 4.0      | 4.9      | 4.0       | 4.0       |

## Section Inspection - 17/06/2024 - S/PG1X

|                           |                |                          |              |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>3             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>9:43 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>S/PG1X                   |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |         |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream           | Upstream Node:         | S/PG1   |
| Road:               | Ten Acre Wood   | Inspected Length:     | 0.56 m             | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 0.56 m             | Downstream Node:       | MHC1    |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.350 m |
| Use:                | Foul            | Pipe Shape:           | Circular           |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |         |

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

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                             | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|---------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                         |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC1         | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension               |          |       |       |
|                                                                                    |      | 0.50         | LD   | Line deviates down                                      |          |       |       |
|                                                                                    |      | 0.56         | GYF  | Finish node, gully, reference: S/PG1: REACHED LINE DOWN | 00:00:20 |       |       |

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

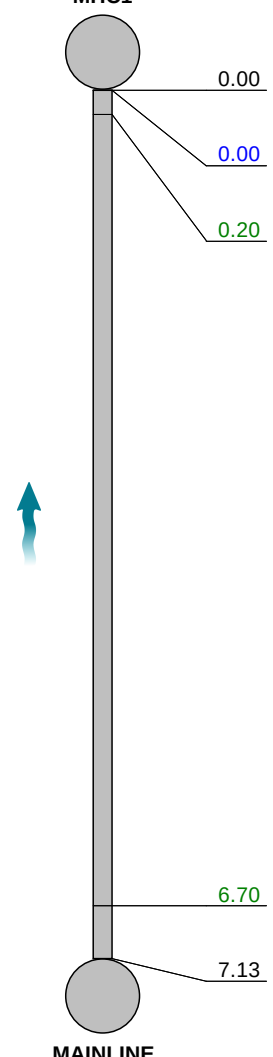
## Section Inspection - 17/06/2024 - MAINLINEX

|                           |                |                          |              |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>4             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>9:48 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>MAINLINEX                |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |          |
|---------------------|-----------------|-----------------------|--------------------|------------------------|----------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream           | Upstream Node:         | MAINLINE |
| Road:               | Ten Acre Wood   | Inspected Length:     | 7.13 m             | Upstream Pipe Depth:   |          |
| Location:           |                 | Total Length:         | 7.13 m             | Downstream Node:       | MHC1     |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.350 m  |
| Use:                | Surface water   | Pipe Shape:           | Circular           |                        |          |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |          |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |          |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |          |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |          |

Comments:

Recommendations:

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1:62 | Position [m]                                                                | Code     | Observation | MPEG | Photo | Grade |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------|----------|-------------|------|-------|-------|--------------|------|-------------|------|------|----|-------------------------------------------------|----------|------|----|-------------------------------------------|--|------|----|---------------------|----------|------|----|-------------------------------|----------|------|-----|-----------------------------------------------------------------------------|----------|
| <div><div><div>Depth: 0.35 m</div><div>MHC1</div><div></div></div><table><thead><tr><th>Position [m]</th><th>Code</th><th>Observation</th><th>MPEG</th></tr></thead><tbody><tr><td>0.00</td><td>IC</td><td>Start node, inspection chamber, reference: MHC1</td><td>00:00:00</td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td></td></tr><tr><td>0.20</td><td>LR</td><td>Line deviates right</td><td>00:00:11</td></tr><tr><td>6.70</td><td>LR</td><td>Line deviates right: SLIGHTLY</td><td>00:00:51</td></tr><tr><td>7.13</td><td>OCF</td><td>Finish node, other special chamber, reference: MAINLINE: REACHED LINE BLIND</td><td>00:00:56</td></tr></tbody></table></div> |      |                                                                             |          |             |      |       |       | Position [m] | Code | Observation | MPEG | 0.00 | IC | Start node, inspection chamber, reference: MHC1 | 00:00:00 | 0.00 | WL | Water level, 5% of the vertical dimension |  | 0.20 | LR | Line deviates right | 00:00:11 | 6.70 | LR | Line deviates right: SLIGHTLY | 00:00:51 | 7.13 | OCF | Finish node, other special chamber, reference: MAINLINE: REACHED LINE BLIND | 00:00:56 |
| Position [m]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Code | Observation                                                                 | MPEG     |             |      |       |       |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | IC   | Start node, inspection chamber, reference: MHC1                             | 00:00:00 |             |      |       |       |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | WL   | Water level, 5% of the vertical dimension                                   |          |             |      |       |       |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |
| 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LR   | Line deviates right                                                         | 00:00:11 |             |      |       |       |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |
| 6.70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | LR   | Line deviates right: SLIGHTLY                                               | 00:00:51 |             |      |       |       |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |
| 7.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | OCF  | Finish node, other special chamber, reference: MAINLINE: REACHED LINE BLIND | 00:00:56 |             |      |       |       |              |      |             |      |      |    |                                                 |          |      |    |                                           |  |      |    |                     |          |      |    |                               |          |      |     |                                                                             |          |

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

## Section Inspection - 17/06/2024 - MHC1X

|                           |                |                          |              |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>5             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>9:50 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>MHC1X                    |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                            |                 |                              |                    |                               |         |
|----------------------------|-----------------|------------------------------|--------------------|-------------------------------|---------|
| <b>Town or Village:</b>    | Margam          | <b>Inspection Direction:</b> | Downstream         | <b>Upstream Node:</b>         | MHC1    |
| <b>Road:</b>               | Ten Acre Wood   | <b>Inspected Length:</b>     | 5.43 m             | <b>Upstream Pipe Depth:</b>   | 0.350 m |
| <b>Location:</b>           |                 | <b>Total Length:</b>         | 5.43 m             | <b>Downstream Node:</b>       | MHC2    |
| <b>Surface Type:</b>       |                 | <b>Joint Length:</b>         |                    | <b>Downstream Pipe Depth:</b> | 0.430 m |
| <b>Use:</b>                | Combined        | <b>Pipe Shape:</b>           | Circular           |                               |         |
| <b>Type of Pipe:</b>       |                 | <b>Dia/Height:</b>           | 100 mm             |                               |         |
| <b>Flow Control:</b>       | No flow control | <b>Pipe Material:</b>        | Polyvinyl chloride |                               |         |
| <b>Year Constructed:</b>   | Not Specified   | <b>Lining Type:</b>          | No Lining          |                               |         |
| <b>Inspection Purpose:</b> |                 | <b>Lining Material:</b>      | No Lining          |                               |         |

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

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1:50 | Position [m]                                                                                        | Code     | Observation | MPEG | Photo | Grade |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|----------|-------------|------|-------|-------|------|----|-------------------------------------------------|----------|--|------|----|-------------------------------------------|--|--|------|-----|----------------------------------------------------------------------------------------------------|----------|--|------|-----|-------------------------------------------------------------|----------|--|------|-----|---------------------------------------------------------------|----------|--|------|-----|--------------------------------------------------------------|----------|--|------|-----|--------------------------------------------------------------|----------|---|------|-----|-----------------------------------------------------------------------------------------------------|----------|---|------|-----|--------------------------------------------------|----------|--|
| <div><div><div>Depth: 0.35 m</div><div>MHC1</div></div><table><tr><td>0.00</td><td>IC</td><td>Start node, inspection chamber, reference: MHC1</td><td>00:00:00</td><td></td></tr><tr><td>0.00</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td></td><td></td></tr><tr><td>0.20</td><td>S01</td><td>Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY</td><td>00:00:13</td><td></td></tr><tr><td>0.41</td><td>S02</td><td>Settled deposits, fine, 5% cross-sectional area loss, start</td><td>00:00:18</td><td></td></tr><tr><td>1.93</td><td>C02</td><td>Settled deposits, fine, 10% cross-sectional area loss, change</td><td>00:00:30</td><td></td></tr><tr><td>3.93</td><td>C02</td><td>Settled deposits, fine, 5% cross-sectional area loss, change</td><td>00:00:48</td><td></td></tr><tr><td>5.39</td><td>F02</td><td>Settled deposits, fine, 5% cross-sectional area loss, finish</td><td>00:01:00</td><td>3</td></tr><tr><td>5.39</td><td>F01</td><td>Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY</td><td>00:01:01</td><td>3</td></tr><tr><td>5.43</td><td>ICF</td><td>Finish node, inspection chamber, reference: MHC2</td><td>00:01:00</td><td></td></tr></table><div><div>Depth: 0.43 m</div><div>MHC2</div></div></div> |      |                                                                                                     |          |             |      |       |       | 0.00 | IC | Start node, inspection chamber, reference: MHC1 | 00:00:00 |  | 0.00 | WL | Water level, 5% of the vertical dimension |  |  | 0.20 | S01 | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY | 00:00:13 |  | 0.41 | S02 | Settled deposits, fine, 5% cross-sectional area loss, start | 00:00:18 |  | 1.93 | C02 | Settled deposits, fine, 10% cross-sectional area loss, change | 00:00:30 |  | 3.93 | C02 | Settled deposits, fine, 5% cross-sectional area loss, change | 00:00:48 |  | 5.39 | F02 | Settled deposits, fine, 5% cross-sectional area loss, finish | 00:01:00 | 3 | 5.39 | F01 | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:01:01 | 3 | 5.43 | ICF | Finish node, inspection chamber, reference: MHC2 | 00:01:00 |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC   | Start node, inspection chamber, reference: MHC1                                                     | 00:00:00 |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WL   | Water level, 5% of the vertical dimension                                                           |          |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S01  | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:13 |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 0.41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S02  | Settled deposits, fine, 5% cross-sectional area loss, start                                         | 00:00:18 |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 1.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | C02  | Settled deposits, fine, 10% cross-sectional area loss, change                                       | 00:00:30 |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 3.93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | C02  | Settled deposits, fine, 5% cross-sectional area loss, change                                        | 00:00:48 |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 5.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | F02  | Settled deposits, fine, 5% cross-sectional area loss, finish                                        | 00:01:00 | 3           |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 5.39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | F01  | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:01:01 | 3           |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |
| 5.43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ICF  | Finish node, inspection chamber, reference: MHC2                                                    | 00:01:00 |             |      |       |       |      |    |                                                 |          |  |      |    |                                           |  |  |      |     |                                                                                                    |          |  |      |     |                                                             |          |  |      |     |                                                               |          |  |      |     |                                                              |          |  |      |     |                                                              |          |   |      |     |                                                                                                     |          |   |      |     |                                                  |          |  |

**Construction Features**
**Structural Defects**
**Miscellaneous Features**
**Service & Operational Observations**

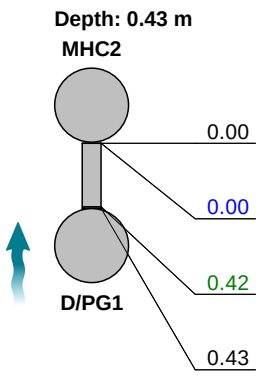
| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 0           | 0.0      | 0.0      | 0.0       | 1.0       | 2           | 6.0      | 6.3      | 34.0      | 5.0       |

## Section Inspection - 17/06/2024 - D/PG1X

|                           |                |                          |              |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>6             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>9:56 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>D/PG1X                   |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |         |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream           | Upstream Node:         | D/PG1   |
| Road:               | Ten Acre Wood   | Inspected Length:     | 0.43 m             | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 0.43 m             | Downstream Node:       | MHC2    |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.430 m |
| Use:                | Surface water   | Pipe Shape:           | Circular           |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |         |

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

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                             | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|---------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                         |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC2         | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension               |          |       |       |
|                                                                                    |      | 0.42         | LD   | Line deviates down                                      |          |       |       |
|                                                                                    |      | 0.43         | GYF  | Finish node, gully, reference: D/PG1: REACHED LINE DOWN | 00:00:20 |       |       |

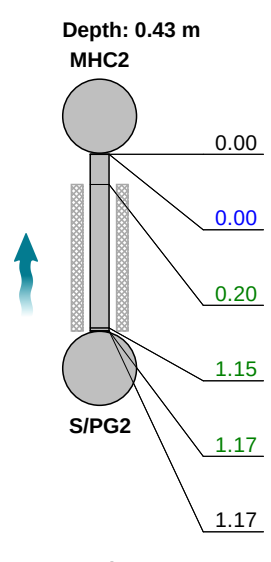
| Construction Features |          |          |           |           | Miscellaneous Features             |          |          |           |           |
|-----------------------|----------|----------|-----------|-----------|------------------------------------|----------|----------|-----------|-----------|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

## Section Inspection - 17/06/2024 - S/PG2X

|                           |                |                          |              |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|--------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>7             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>9:59 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>S/PG2X                   |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |              | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |         |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream           | Upstream Node:         | S/PG2   |
| Road:               | Ten Acre Wood   | Inspected Length:     | 1.17 m             | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 1.17 m             | Downstream Node:       | MHC2    |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.430 m |
| Use:                | Foul            | Pipe Shape:           | Circular           |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |         |

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

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                                                                             | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|---------------------------------------------------------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                                                                         |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC2                                                         | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension                                                               |          |       |       |
|                                                                                    |      | 0.20         | S02  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:10 |       |       |
|                                                                                    |      | 1.15         | LD   | Line deviates down                                                                                      |          |       |       |
|                                                                                    |      | 1.17         | F02  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:25 |       | 3     |
|                                                                                    |      | 1.17         | GYF  | Finish node, gully, reference: S/PG2: REACHED LINE DOWN                                                 | 00:00:25 |       |       |

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 0           | 0.0      | 0.0      | 0.0       | 1.0       | 1           | 4.0      | 3.4      | 4.0       | 4.0       |

## Section Inspection - 17/06/2024 - MHC2X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>8             | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:00 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>MHC2X                    |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |         |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Downstream         | Upstream Node:         | MHC2    |
| Road:               | Ten Acre Wood   | Inspected Length:     | 4.46 m             | Upstream Pipe Depth:   | 0.430 m |
| Location:           |                 | Total Length:         | 4.46 m             | Downstream Node:       | MHC3    |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.430 m |
| Use:                | Combined        | Pipe Shape:           | Circular           |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |         |

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

| Scale: | 1:50 | Position [m] | Code | Observation                                                                                             | MPEG     | Photo | Grade |
|--------|------|--------------|------|---------------------------------------------------------------------------------------------------------|----------|-------|-------|
|        |      |              |      |                                                                                                         |          |       |       |
|        |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC2                                                         | 00:00:00 |       |       |
|        |      | 0.00         | WL   | Water level, 5% of the vertical dimension                                                               |          |       |       |
|        |      | 0.20         | S01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:11 |       |       |
|        |      | 2.41         | DES  | Settled deposits, fine, 5% cross-sectional area loss: GRASS                                             | 00:00:31 |       | 3     |
|        |      | 4.46         | F01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:46 |       | 3     |
|        |      | 4.46         | ICF  | Finish node, inspection chamber, reference: MHC3                                                        | 00:00:46 |       |       |

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 0           | 0.0      | 0.0      | 0.0       | 1.0       | 2           | 6.0      | 4.9      | 22.0      | 4.0       |

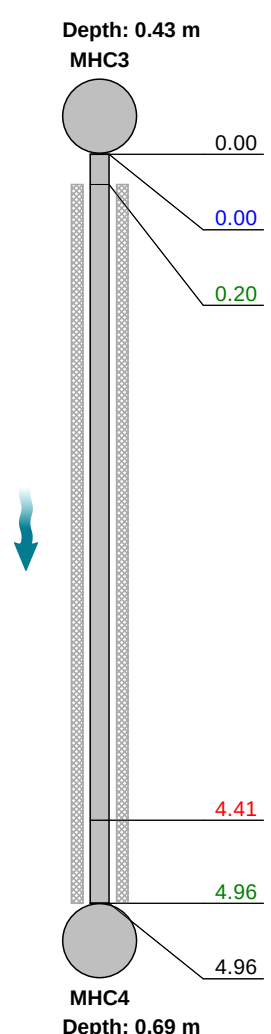
## Section Inspection - 17/06/2024 - MHC3X

| Item No.      | Insp. No. | Date          | Time  | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|---------------|-----------|---------------|-------|------------------|-----------------|---------------|----------------|
| 9             | 1         | 17/06/24      | 10:10 | Not Specified    | No Rain Or Snow | No            | MHC3X          |
| Operator      |           | Vehicle       |       | Camera           | Preset Length   | Legal Status  | Alternative ID |
| Not Specified |           | Not Specified |       | Not Specified    | Not Specified   | Not Specified | Not Specified  |

|                            |                 |                              |                |                               |         |
|----------------------------|-----------------|------------------------------|----------------|-------------------------------|---------|
| <b>Town or Village:</b>    | Margam          | <b>Inspection Direction:</b> | Downstream     | <b>Upstream Node:</b>         | MHC3    |
| <b>Road:</b>               | Ten Acre Wood   | <b>Inspected Length:</b>     | 4.96 m         | <b>Upstream Pipe Depth:</b>   | 0.430 m |
| <b>Location:</b>           |                 | <b>Total Length:</b>         | 4.96 m         | <b>Downstream Node:</b>       | MHC4    |
| <b>Surface Type:</b>       |                 | <b>Joint Length:</b>         |                | <b>Downstream Pipe Depth:</b> | 0.690 m |
| <b>Use:</b>                | Combined        | <b>Pipe Shape:</b>           | Circular       |                               |         |
| <b>Type of Pipe:</b>       |                 | <b>Dia/Height:</b>           | 100 mm         |                               |         |
| <b>Flow Control:</b>       | No flow control | <b>Pipe Material:</b>        | Vitrified clay |                               |         |
| <b>Year Constructed:</b>   | Not Specified   | <b>Lining Type:</b>          | No Lining      |                               |         |
| <b>Inspection Purpose:</b> |                 | <b>Lining Material:</b>      | No Lining      |                               |         |

Comments:

Recommendations:

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                                                                             | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|---------------------------------------------------------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                                                                         |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC3                                                         | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension                                                               |          |       |       |
|                                                                                    |      | 0.20         | S01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:10 |       |       |
|                                                                                    |      | 4.41         | FC   | Fracture, circumferential from 9 o'clock to 3 o'clock                                                   | 00:00:53 | 1     | 3 / 2 |
|                                                                                    |      | 4.96         | F01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:01:00 |       | 3     |
|                                                                                    |      | 4.96         | ICF  | Finish node, inspection chamber, reference: MHC4                                                        | 00:01:00 |       |       |

### Construction Features

#### Structural Defects

### Miscellaneous Features

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 3           | 40.0     | 12.1     | 60.0      | 3.0       | 4           | 5.0      | 4.6      | 23.0      | 4.0       |

## Section Pictures - 17/06/2024 - MHC3X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 9        | Downstream           | MHC3X |                  | 18958                |



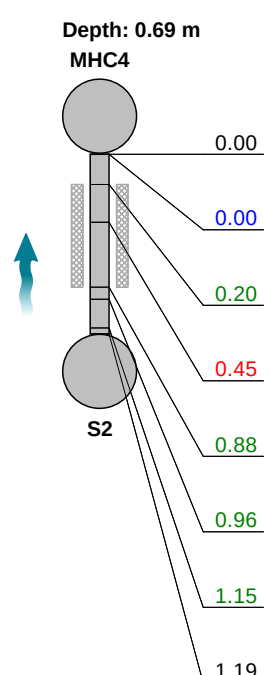
1, 00:00:53, 4.41 m  
Fracture, circumferential from 9 o'clock to 3 o'clock

## Section Inspection - 17/06/2024 - S2X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>10            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:17 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>S2X                      |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                |                        |         |
|---------------------|-----------------|-----------------------|----------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream       | Upstream Node:         | S2      |
| Road:               | Ten Acre Wood   | Inspected Length:     | 1.19 m         | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 1.19 m         | Downstream Node:       | MHC4    |
| Surface Type:       |                 | Joint Length:         |                | Downstream Pipe Depth: | 0.690 m |
| Use:                | Surface water   | Pipe Shape:           | Circular       |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm         |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Vitrified clay |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining      |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining      |                        |         |

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

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                                                          | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|--------------------------------------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                                                      |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC4                                      | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension                                            |          |       |       |
|                                                                                    |      | 0.20         | S01  | DES Settled deposits, fine, 10% cross-sectional area loss, start                     | 00:00:11 |       |       |
|                                                                                    |      | 0.45         | JDM  | Joint displaced, medium                                                              | 00:00:21 | 1     | 1 / 3 |
|                                                                                    |      | 0.88         | F01  | DES Settled deposits, fine, 10% cross-sectional area loss, finish                    | 00:00:27 |       | 3     |
|                                                                                    |      | 0.96         | DEEJ | Attached deposits, encrustation at joint at 11 o'clock, 5% cross-sectional area loss | 00:00:29 | 2     | 3     |
|                                                                                    |      | 1.15         | LU   | Line deviates up                                                                     |          |       |       |
|                                                                                    |      | 1.19         | OCF  | Finish node, other special chamber, reference: S2: REACHED LINE UP                   | 00:00:35 |       |       |

### Construction Features

#### Structural Defects

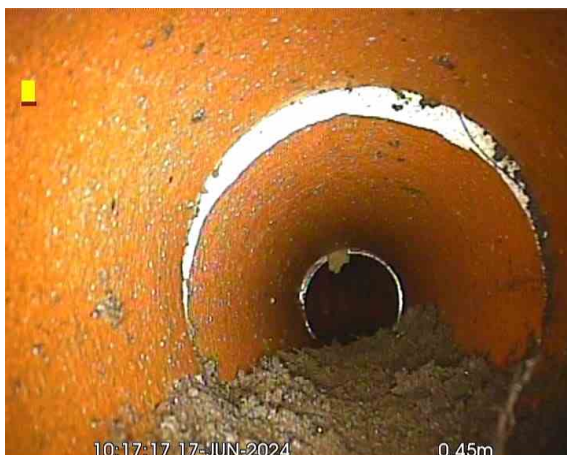
### Miscellaneous Features

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 1           | 1.0      | 0.8      | 1.0       | 1.0       | 3           | 4.0      | 5.0      | 6.0       | 5.0       |

## Section Pictures - 17/06/2024 - S2X

| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-----|------------------|----------------------|
| 10       | Upstream             | S2X |                  | 18958                |



10:17:17 17-JUN-2024 0.45m

1, 00:00:21, 0.45 m  
Joint displaced, medium



10:17:25 17-JUN-2024 0.96m

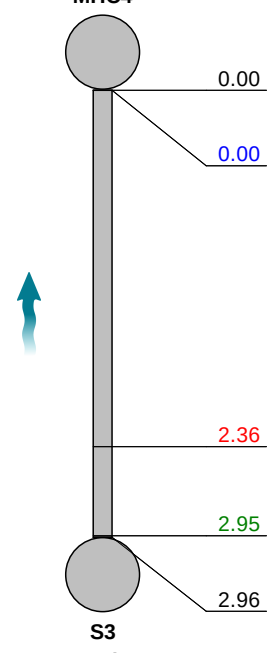
2, 00:00:29, 0.96 m  
Attached deposits, encrustation at joint at 11 o'clock, 5%  
cross-sectional area loss

## Section Inspection - 17/06/2024 - S3X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>11            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:19 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>S3X                      |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                |                        |         |
|---------------------|-----------------|-----------------------|----------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream       | Upstream Node:         | S3      |
| Road:               | Ten Acre Wood   | Inspected Length:     | 2.96 m         | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 2.96 m         | Downstream Node:       | MHC4    |
| Surface Type:       |                 | Joint Length:         |                | Downstream Pipe Depth: | 0.690 m |
| Use:                | Surface water   | Pipe Shape:           | Circular       |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm         |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Vitrified clay |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining      |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining      |                        |         |

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

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1:50                                                               | Position [m] | Code  | Observation | MPEG | Photo | Grade |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|--------------|-------|-------------|------|-------|-------|------|-------------|------|-------|-------|----|-------------------------------------------------|----------|--|--|----|-------------------------------------------|--|--|--|----|-----------------------------------------------------|----------|---|-------|----|------------------|--|--|--|-----|--------------------------------------------------------------------|----------|--|--|
| <div><div><div>Depth: 0.69 m</div><div>MHC4</div><div></div><table><tr><th>Code</th><th>Observation</th><th>MPEG</th><th>Photo</th><th>Grade</th></tr><tr><td>IC</td><td>Start node, inspection chamber, reference: MHC4</td><td>00:00:00</td><td></td><td></td></tr><tr><td>WL</td><td>Water level, 5% of the vertical dimension</td><td></td><td></td><td></td></tr><tr><td>CC</td><td>Crack, circumferential from 10 o'clock to 3 o'clock</td><td>00:00:38</td><td>1</td><td>2 / 2</td></tr><tr><td>LU</td><td>Line deviates up</td><td></td><td></td><td></td></tr><tr><td>OCF</td><td>Finish node, other special chamber, reference: S3: REACHED LINE UP</td><td>00:00:45</td><td></td><td></td></tr></table></div></div> |                                                                    |              |       |             |      |       |       | Code | Observation | MPEG | Photo | Grade | IC | Start node, inspection chamber, reference: MHC4 | 00:00:00 |  |  | WL | Water level, 5% of the vertical dimension |  |  |  | CC | Crack, circumferential from 10 o'clock to 3 o'clock | 00:00:38 | 1 | 2 / 2 | LU | Line deviates up |  |  |  | OCF | Finish node, other special chamber, reference: S3: REACHED LINE UP | 00:00:45 |  |  |
| Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Observation                                                        | MPEG         | Photo | Grade       |      |       |       |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |
| IC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Start node, inspection chamber, reference: MHC4                    | 00:00:00     |       |             |      |       |       |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |
| WL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Water level, 5% of the vertical dimension                          |              |       |             |      |       |       |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |
| CC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Crack, circumferential from 10 o'clock to 3 o'clock                | 00:00:38     | 1     | 2 / 2       |      |       |       |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |
| LU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Line deviates up                                                   |              |       |             |      |       |       |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |
| OCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Finish node, other special chamber, reference: S3: REACHED LINE UP | 00:00:45     |       |             |      |       |       |      |             |      |       |       |    |                                                 |          |  |  |    |                                           |  |  |  |    |                                                     |          |   |       |    |                  |  |  |  |     |                                                                    |          |  |  |

| 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                     | 10.0     | 3.4      | 10.0      | 2.0       | 1                                  | 1.0      | 0.3      | 1.0       | 2.0       |

## Section Pictures - 17/06/2024 - S3X

| Item No. | Inspection Direction | PLR | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-----|------------------|----------------------|
| 11       | Upstream             | S3X |                  | 18958                |



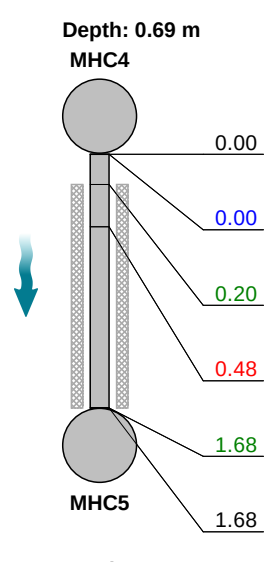
1, 00:00:38, 2.36 m  
Crack, circumferential from 10 o'clock to 3 o'clock

## Section Inspection - 17/06/2024 - MHC4X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>12            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:21 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>MHC4X                    |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                |                        |         |
|---------------------|-----------------|-----------------------|----------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Downstream     | Upstream Node:         | MHC4    |
| Road:               | Ten Acre Wood   | Inspected Length:     | 1.68 m         | Upstream Pipe Depth:   | 0.690 m |
| Location:           |                 | Total Length:         | 1.68 m         | Downstream Node:       | MHC5    |
| Surface Type:       |                 | Joint Length:         |                | Downstream Pipe Depth: | 0.800 m |
| Use:                | Combined        | Pipe Shape:           | Circular       |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm         |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Vitrified clay |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining      |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining      |                        |         |

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

| Scale:                                                                             | 1:50 | Position [m] | Code | Observation                                                                                             | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|------|--------------|------|---------------------------------------------------------------------------------------------------------|----------|-------|-------|
|  |      |              |      |                                                                                                         |          |       |       |
|                                                                                    |      | 0.00         | IC   | Start node, inspection chamber, reference: MHC4                                                         | 00:00:00 |       |       |
|                                                                                    |      | 0.00         | WL   | Water level, 5% of the vertical dimension                                                               |          |       |       |
|                                                                                    |      | 0.20         | S01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:10 |       |       |
|                                                                                    |      | 0.48         | JDM  | Joint displaced, medium                                                                                 | 00:00:17 | 1     | 1 / 3 |
|                                                                                    |      | 1.68         | F01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:31 |       | 3     |
|                                                                                    |      | 1.68         | ICF  | Finish node, inspection chamber, reference: MHC5                                                        | 00:00:31 |       |       |

### Construction Features

#### Structural Defects

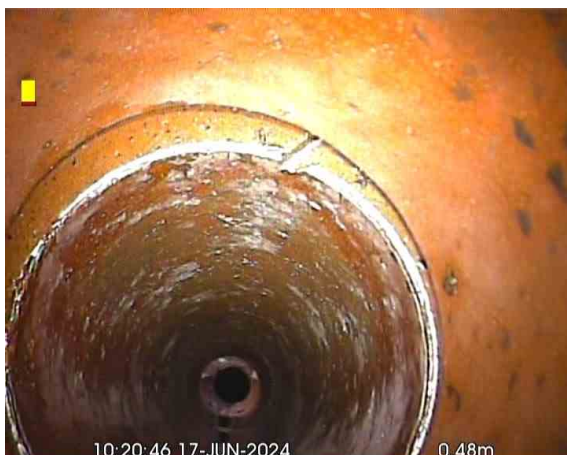
### Miscellaneous Features

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 1           | 1.0      | 0.6      | 1.0       | 1.0       | 2           | 6.0      | 6.0      | 10.0      | 5.0       |

## Section Pictures - 17/06/2024 - MHC4X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 12       | Downstream           | MHC4X |                  | 18958                |



10:20:46 17-JUN-2024

0.48m

1, 00:00:17, 0.48 m  
Joint displaced, medium

## Section Inspection - 17/06/2024 - MHC5X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>13            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:22 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>MHC5X                    |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                |                        |         |
|---------------------|-----------------|-----------------------|----------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Downstream     | Upstream Node:         | MHC5    |
| Road:               | Ten Acre Wood   | Inspected Length:     | 5.66 m         | Upstream Pipe Depth:   | 0.800 m |
| Location:           |                 | Total Length:         | 5.66 m         | Downstream Node:       | MHC6    |
| Surface Type:       |                 | Joint Length:         |                | Downstream Pipe Depth: | 1.300 m |
| Use:                | Combined        | Pipe Shape:           | Circular       |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm         |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Vitrified clay |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining      |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining      |                        |         |

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

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1:50 | Position [m]                                                                                        | Code     | Observation | MPEG | Photo | Grade |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------------------|----------|-------------|------|-------|-------|------|----|-------------------------------------------------|----------|--|--|------|----|-------------------------------------------|--|--|--|------|-----|----------------------------------------------------------|----------|--|--|------|-----|----------------------------------------------------------------------------------------------------|----------|--|--|------|----|--------------------------------------------|--|--|--|------|------|----------------------------------------------------------------------------------------------------|----------|---|---|------|----|-------------------------------------------|--|--|--|------|-----|-----------------------------------------------------------------------------------------------------|----------|--|---|------|------|---------------------------------------|----------|--|--|
| <div><div><div>Depth: 0.80 m</div><div>MHC5</div></div><table><tr><td>0.00</td><td>IC</td><td>Start node, inspection chamber, reference: MHC5</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></td><td></td><td></td></tr><tr><td>0.00</td><td>REM</td><td>General remark: VIDEO HEADER INCORRECT PLEASE SEE REPORT</td><td>00:00:06</td><td></td><td></td></tr><tr><td>0.20</td><td>S01</td><td>Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY</td><td>00:00:11</td><td></td><td></td></tr><tr><td>4.52</td><td>WL</td><td>Water level, 10% of the vertical dimension</td><td></td><td></td><td></td></tr><tr><td>4.65</td><td>DEEJ</td><td>Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 5% cross-sectional area loss</td><td>00:00:48</td><td>1</td><td>3</td></tr><tr><td>5.10</td><td>WL</td><td>Water level, 5% of the vertical dimension</td><td></td><td></td><td></td></tr><tr><td>5.66</td><td>F01</td><td>Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY</td><td>00:00:59</td><td></td><td>3</td></tr><tr><td>5.66</td><td>MHC6</td><td>Finish node, manhole, reference: MHC6</td><td>00:00:59</td><td></td><td></td></tr></table><div><div>Depth: 1.30 m</div></div></div> |      |                                                                                                     |          |             |      |       |       | 0.00 | IC | Start node, inspection chamber, reference: MHC5 | 00:00:00 |  |  | 0.00 | WL | Water level, 5% of the vertical dimension |  |  |  | 0.00 | REM | General remark: VIDEO HEADER INCORRECT PLEASE SEE REPORT | 00:00:06 |  |  | 0.20 | S01 | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY | 00:00:11 |  |  | 4.52 | WL | Water level, 10% of the vertical dimension |  |  |  | 4.65 | DEEJ | Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 5% cross-sectional area loss | 00:00:48 | 1 | 3 | 5.10 | WL | Water level, 5% of the vertical dimension |  |  |  | 5.66 | F01 | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:59 |  | 3 | 5.66 | MHC6 | Finish node, manhole, reference: MHC6 | 00:00:59 |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | IC   | Start node, inspection chamber, reference: MHC5                                                     | 00:00:00 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | WL   | Water level, 5% of the vertical dimension                                                           |          |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | REM  | General remark: VIDEO HEADER INCORRECT PLEASE SEE REPORT                                            | 00:00:06 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 0.20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | S01  | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:11 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 4.52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | WL   | Water level, 10% of the vertical dimension                                                          |          |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 4.65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | DEEJ | Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 5% cross-sectional area loss  | 00:00:48 | 1           | 3    |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 5.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | WL   | Water level, 5% of the vertical dimension                                                           |          |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 5.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | F01  | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:59 |             | 3    |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |
| 5.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | MHC6 | Finish node, manhole, reference: MHC6                                                               | 00:00:59 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                          |          |  |  |      |     |                                                                                                    |          |  |  |      |    |                                            |  |  |  |      |      |                                                                                                    |          |   |   |      |    |                                           |  |  |  |      |     |                                                                                                     |          |  |   |      |      |                                       |          |  |  |

### Construction Features

#### Structural Defects

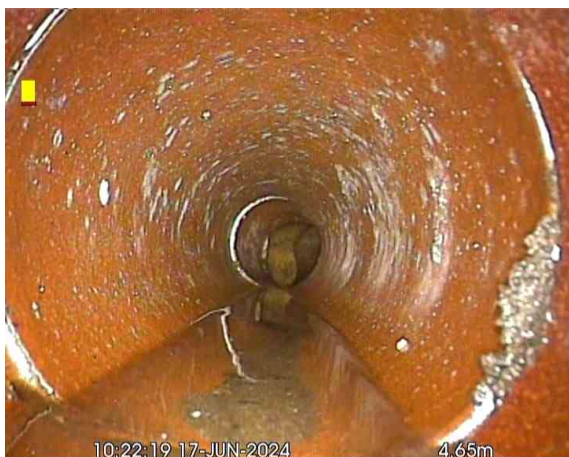
### Miscellaneous Features

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 0           | 0.0      | 0.0      | 0.0       | 1.0       | 2           | 6.0      | 4.6      | 26.0      | 4.0       |

## Section Pictures - 17/06/2024 - MHC5X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 13       | Downstream           | MHC5X |                  | 18958                |



1, 00:00:48, 4.65 m

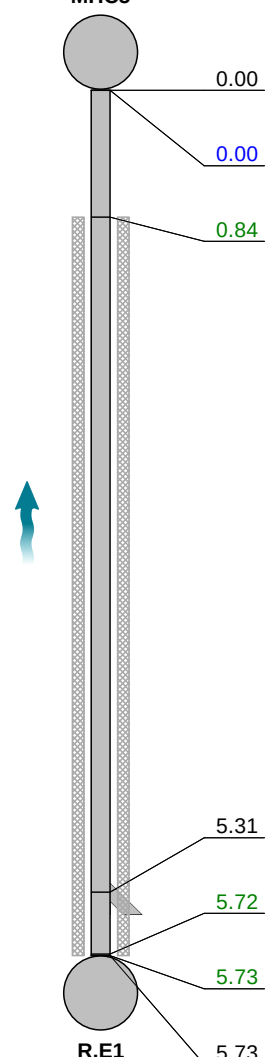
Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 5% cross-sectional area loss

## Section Inspection - 17/06/2024 - R.E1X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>14            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:47 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>R.E1X                    |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                    |                        |         |
|---------------------|-----------------|-----------------------|--------------------|------------------------|---------|
| Town or Village:    | Margam          | Inspection Direction: | Upstream           | Upstream Node:         | R.E1    |
| Road:               | Ten Acre Wood   | Inspected Length:     | 5.73 m             | Upstream Pipe Depth:   |         |
| Location:           |                 | Total Length:         | 5.73 m             | Downstream Node:       | MHC5    |
| Surface Type:       |                 | Joint Length:         |                    | Downstream Pipe Depth: | 0.800 m |
| Use:                | Foul            | Pipe Shape:           | Circular           |                        |         |
| Type of Pipe:       |                 | Dia/Height:           | 100 mm             |                        |         |
| Flow Control:       | No flow control | Pipe Material:        | Polyvinyl chloride |                        |         |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining          |                        |         |
| Inspection Purpose: |                 | Lining Material:      | No Lining          |                        |         |

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

| Scale:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1:50 | Position [m]                                                                                            | Code     | Observation | MPEG | Photo | Grade |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------|----------|-------------|------|-------|-------|------|----|-------------------------------------------------|----------|--|--|------|----|-------------------------------------------|--|--|--|------|-----|--------------------------------------------------------------------------------------------------------|----------|--|--|------|----|----------------------------------|----------|--|--|------|----|------------------|--|--|--|------|-----|---------------------------------------------------------------------------------------------------------|----------|--|---|------|-----|------------------------------------------------------------|----------|--|--|
| <div><div><div>Depth: 0.80 m</div><div>MHC5</div></div><table><tr><td>0.00</td><td>IC</td><td>Start node, inspection chamber, reference: MHC5</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></td><td></td><td></td></tr><tr><td>0.84</td><td>S01</td><td>DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY</td><td>00:00:18</td><td></td><td></td></tr><tr><td>5.31</td><td>JN</td><td>Junction at 9 o'clock, 100mm dia</td><td>00:00:46</td><td></td><td></td></tr><tr><td>5.72</td><td>LU</td><td>Line deviates up</td><td></td><td></td><td></td></tr><tr><td>5.73</td><td>F01</td><td>DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY</td><td>00:00:52</td><td></td><td>3</td></tr><tr><td>5.73</td><td>REF</td><td>Finish node, rodding eye, reference: R.E1: REACHED LINE UP</td><td>00:00:52</td><td></td><td></td></tr></table><div><div>R.E1</div><div>Depth: m</div></div></div> |      |                                                                                                         |          |             |      |       |       | 0.00 | IC | Start node, inspection chamber, reference: MHC5 | 00:00:00 |  |  | 0.00 | WL | Water level, 5% of the vertical dimension |  |  |  | 0.84 | S01 | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY | 00:00:18 |  |  | 5.31 | JN | Junction at 9 o'clock, 100mm dia | 00:00:46 |  |  | 5.72 | LU | Line deviates up |  |  |  | 5.73 | F01 | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:52 |  | 3 | 5.73 | REF | Finish node, rodding eye, reference: R.E1: REACHED LINE UP | 00:00:52 |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IC   | Start node, inspection chamber, reference: MHC5                                                         | 00:00:00 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
| 0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WL   | Water level, 5% of the vertical dimension                                                               |          |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
| 0.84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | S01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY  | 00:00:18 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
| 5.31                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | JN   | Junction at 9 o'clock, 100mm dia                                                                        | 00:00:46 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
| 5.72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | LU   | Line deviates up                                                                                        |          |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
| 5.73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | F01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:00:52 |             | 3    |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |
| 5.73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | REF  | Finish node, rodding eye, reference: R.E1: REACHED LINE UP                                              | 00:00:52 |             |      |       |       |      |    |                                                 |          |  |  |      |    |                                           |  |  |  |      |     |                                                                                                        |          |  |  |      |    |                                  |          |  |  |      |    |                  |  |  |  |      |     |                                                                                                         |          |  |   |      |     |                                                            |          |  |  |

**Construction Features**
**Structural Defects**
**Miscellaneous Features**
**Service & Operational Observations**

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 0           | 0.0      | 0.0      | 0.0       | 1.0       | 1           | 4.0      | 3.5      | 20.0      | 4.0       |

## Section Inspection - 17/06/2024 - SS79867201X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>15            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>10:58 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>SS79867201X              |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

|                     |                 |                       |                |                        |            |
|---------------------|-----------------|-----------------------|----------------|------------------------|------------|
| Town or Village:    | Margam          | Inspection Direction: | Downstream     | Upstream Node:         | SS79867201 |
| Road:               | Ten Acre Wood   | Inspected Length:     | 30.55 m        | Upstream Pipe Depth:   | 0.900 m    |
| Location:           |                 | Total Length:         | 30.55 m        | Downstream Node:       | MHC6       |
| Surface Type:       |                 | Joint Length:         |                | Downstream Pipe Depth: | 1.300 m    |
| Use:                | Foul            | Pipe Shape:           | Circular       |                        |            |
| Type of Pipe:       |                 | Dia/Height:           | 150 mm         |                        |            |
| Flow Control:       | No flow control | Pipe Material:        | Vitrified clay |                        |            |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining      |                        |            |
| Inspection Purpose: |                 | Lining Material:      | No Lining      |                        |            |

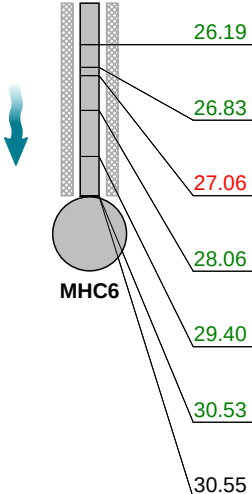
Comments:

Recommendations:

| Scale:        | 1:217 | Position [m] | Code | Observation                                                                                            | MPEG     | Photo | Grade |
|---------------|-------|--------------|------|--------------------------------------------------------------------------------------------------------|----------|-------|-------|
| Depth: 0.90 m |       |              |      |                                                                                                        |          |       |       |
| SS79867201    |       | 0.00         | MH   | Start node, manhole, reference: SS79867201                                                             | 00:00:00 |       |       |
|               |       | 0.00         | WL   | Water level, 5% of the vertical dimension                                                              |          |       |       |
|               |       | 0.20         | S01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY | 00:00:11 |       |       |
|               |       | 1.69         | RFJ  | Roots, fine at joint                                                                                   | 00:00:26 |       | 2     |
|               |       | 1.69         | CCJ  | Crack, circumferential at joint from 10 o'clock to 2 o'clock                                           | 00:00:26 | 1     | 2 / 2 |
|               |       | 5.01         | RFJ  | Roots, fine at joint                                                                                   | 00:01:02 |       | 2     |
|               |       | 5.69         | RFJ  | Roots, fine at joint                                                                                   | 00:01:06 |       | 2     |
|               |       | 6.28         | RFJ  | Roots, fine at joint                                                                                   | 00:01:14 |       | 2     |
|               |       | 7.57         | RFJ  | Roots, fine at joint                                                                                   | 00:01:32 |       | 2     |
|               |       | 8.15         | S02  | RFJ Roots, fine at joint, start                                                                        | 00:01:38 |       |       |
|               |       | 12.78        | F02  | RFJ Roots, fine at joint, finish                                                                       | 00:02:18 |       | 2     |
|               |       | 12.78        | DEEJ | Attached deposits, encrustation at joint from 7 o'clock to 8 o'clock, 5% cross-sectional area loss     | 00:02:18 |       | 3     |
|               |       | 14.80        | RFJ  | Roots, fine at joint                                                                                   | 00:02:33 |       | 2     |
|               |       | 14.80        | CCJ  | Crack, circumferential at joint from 6 o'clock to 8 o'clock                                            | 00:02:33 |       | 2 / 2 |
|               |       | 23.76        | RFJ  | Roots, fine at joint                                                                                   | 00:03:49 |       | 2     |

## Section Inspection - 17/06/2024 - SS79867201X

| Item No.      | Insp. No. | Date          | Time  | Client's Job Ref | Weather         | Pre Cleaned   | PLR            |
|---------------|-----------|---------------|-------|------------------|-----------------|---------------|----------------|
| 15            | 1         | 17/06/24      | 10:58 | Not Specified    | No Rain Or Snow | No            | SS79867201X    |
| Operator      |           | Vehicle       |       | Camera           | Preset Length   | Legal Status  | Alternative ID |
| Not Specified |           | Not Specified |       | Not Specified    | Not Specified   | Not Specified | Not Specified  |

| Scale:                                                                            | 1:217    | Position [m] | Code      | Observation                                   | MPEG                                                                                                | Photo    | Grade    |           |           |
|-----------------------------------------------------------------------------------|----------|--------------|-----------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------|----------|----------|-----------|-----------|
|  |          | 26.19        | RFJ       | Roots, fine at joint                          | 00:04:12                                                                                            |          | 2        |           |           |
|                                                                                   |          | 26.83        | RFJ       | Roots, fine at joint                          | 00:04:19                                                                                            |          | 2        |           |           |
|                                                                                   |          | 27.06        | FLJ       | Fracture, longitudinal at joint at 11 o'clock | 00:04:24                                                                                            | 2        | 3 / 2    |           |           |
|                                                                                   |          | 28.06        | RFJ       | Roots, fine at joint                          | 00:04:34                                                                                            |          | 2        |           |           |
|                                                                                   |          | 29.40        | RFJ       | Roots, fine at joint                          | 00:04:48                                                                                            |          | 2        |           |           |
|                                                                                   |          | 30.53        | F01       | DEG                                           | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:04:59 |          | 3         |           |
|                                                                                   |          | 30.55        | MHF       | Finish node, manhole, reference: MHC6         | 00:05:00                                                                                            |          |          |           |           |
| Depth: 1.30 m                                                                     |          |              |           |                                               |                                                                                                     |          |          |           |           |
| Construction Features                                                             |          |              |           |                                               | Miscellaneous Features                                                                              |          |          |           |           |
| Structural Defects                                                                |          |              |           |                                               | Service & Operational Observations                                                                  |          |          |           |           |
| STR No. Def                                                                       | STR Peak | STR Mean     | STR Total | STR Grade                                     | SER No. Def                                                                                         | SER Peak | SER Mean | SER Total | SER Grade |
| 3                                                                                 | 40.0     | 2.0          | 60.0      | 3.0                                           | 17                                                                                                  | 6.0      | 4.7      | 145.0     | 4.0       |

## Section Pictures - 17/06/2024 - SS79867201X

| Item No. | Inspection Direction | PLR         | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------------|------------------|----------------------|
| 15       | Downstream           | SS79867201X |                  | 18958                |



1, 00:00:26, 1.69 m  
Crack, circumferential at joint from 10 o'clock to 2 o'clock



2, 00:04:24, 27.06 m  
Fracture, longitudinal at joint at 11 o'clock

## Section Inspection - 17/06/2024 - MHC6X

|                           |                |                          |               |                                   |                                |                               |                                 |
|---------------------------|----------------|--------------------------|---------------|-----------------------------------|--------------------------------|-------------------------------|---------------------------------|
| Item No.<br>16            | Insp. No.<br>1 | Date<br>17/06/24         | Time<br>11:29 | Client's Job Ref<br>Not Specified | Weather<br>No Rain Or Snow     | Pre Cleaned<br>No             | PLR<br>MHC6X                    |
| Operator<br>Not Specified |                | Vehicle<br>Not Specified |               | Camera<br>Not Specified           | Preset Length<br>Not Specified | Legal Status<br>Not Specified | Alternative ID<br>Not Specified |

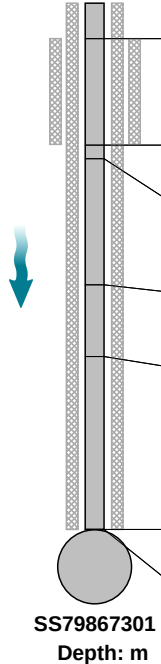
|                     |                 |                       |                |                        |            |
|---------------------|-----------------|-----------------------|----------------|------------------------|------------|
| Town or Village:    | Margam          | Inspection Direction: | Downstream     | Upstream Node:         | MHC6       |
| Road:               | Ten Acre Wood   | Inspected Length:     | 27.37 m        | Upstream Pipe Depth:   | 1.300 m    |
| Location:           |                 | Total Length:         | 27.37 m        | Downstream Node:       | SS79867301 |
| Surface Type:       |                 | Joint Length:         |                | Downstream Pipe Depth: |            |
| Use:                | Foul            | Pipe Shape:           | Circular       |                        |            |
| Type of Pipe:       |                 | Dia/Height:           | 150 mm         |                        |            |
| Flow Control:       | No flow control | Pipe Material:        | Vitrified clay |                        |            |
| Year Constructed:   | Not Specified   | Lining Type:          | No Lining      |                        |            |
| Inspection Purpose: |                 | Lining Material:      | No Lining      |                        |            |

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

| Scale: 1:148                                                                       | Position [m] | Code | Observation                                                                                            | MPEG     | Photo | Grade |
|------------------------------------------------------------------------------------|--------------|------|--------------------------------------------------------------------------------------------------------|----------|-------|-------|
| <b>Depth: 1.30 m</b><br><b>MHC6</b>                                                |              |      |                                                                                                        |          |       |       |
|  | 0.00         | MH   | Start node, manhole, reference: MHC6                                                                   | 00:00:00 |       |       |
|                                                                                    | 0.00         | WL   | Water level, 5% of the vertical dimension                                                              |          |       |       |
|                                                                                    | 0.20         | S01  | DEG Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, start: PATCHY | 00:00:11 |       |       |
|                                                                                    | 0.75         | CM   | Cracks, multiple from 9 o'clock to 2 o'clock                                                           | 00:00:19 | 1     | 3 / 2 |
|                                                                                    | 1.22         | RFJ  | Roots, fine at joint                                                                                   | 00:00:34 |       | 2     |
|                                                                                    | 1.95         | RFJ  | Roots, fine at joint                                                                                   | 00:00:43 |       | 2     |
|                                                                                    | 2.60         | CMJ  | Cracks, multiple at joint from 9 o'clock to 1 o'clock                                                  | 00:00:50 | 2     | 3 / 2 |
|                                                                                    | 3.29         | CM   | Cracks, multiple from 12 o'clock to 12 o'clock                                                         | 00:00:58 | 3     | 3 / 2 |
|                                                                                    | 3.71         | RF   | Roots, fine                                                                                            | 00:01:02 |       | 2     |
|                                                                                    | 4.51         | RFJ  | Roots, fine at joint                                                                                   | 00:01:09 |       | 2     |
|                                                                                    | 8.31         | RFJ  | Roots, fine at joint                                                                                   | 00:01:42 |       | 2     |
|                                                                                    | 10.36        | CMJ  | Cracks, multiple at joint from 9 o'clock to 12 o'clock                                                 | 00:02:00 | 4     | 3 / 2 |
|                                                                                    | 11.99        | CM   | Cracks, multiple from 8 o'clock to 3 o'clock                                                           | 00:02:13 | 5     | 3 / 2 |
|                                                                                    | 14.15        | RFJ  | Roots, fine at joint                                                                                   | 00:02:29 |       | 2     |
|                                                                                    | 16.33        | FS   | Fracture, spiral from 9 o'clock to 11 o'clock                                                          | 00:02:48 | 6     | 4 / 2 |

## Section Inspection - 17/06/2024 - MHC6X

|                                  |                       |                                 |                      |                                          |                                       |                                      |                                        |
|----------------------------------|-----------------------|---------------------------------|----------------------|------------------------------------------|---------------------------------------|--------------------------------------|----------------------------------------|
| <b>Item No.</b><br>16            | <b>Insp. No.</b><br>1 | <b>Date</b><br>17/06/24         | <b>Time</b><br>11:29 | <b>Client's Job Ref</b><br>Not Specified | <b>Weather</b><br>No Rain Or Snow     | <b>Pre Cleaned</b><br>No             | <b>PLR</b><br>MHC6X                    |
| <b>Operator</b><br>Not Specified |                       | <b>Vehicle</b><br>Not Specified |                      | <b>Camera</b><br>Not Specified           | <b>Preset Length</b><br>Not Specified | <b>Legal Status</b><br>Not Specified | <b>Alternative ID</b><br>Not Specified |

|                                                                                                                   |          |              |           |                                                                                                     |                                    |          |          |           |           |
|-------------------------------------------------------------------------------------------------------------------|----------|--------------|-----------|-----------------------------------------------------------------------------------------------------|------------------------------------|----------|----------|-----------|-----------|
| Scale:                                                                                                            | 1:148    | Position [m] | Code      | Observation                                                                                         | MPEG                               | Photo    | Grade    |           |           |
|  <p>SS79867301<br/>Depth: m</p> | 17.75    | S02          | RF        | Roots, fine, start                                                                                  | 00:03:01                           |          |          |           |           |
|                                                                                                                   | 19.83    | F02          | RF        | Roots, fine, finish                                                                                 | 00:03:26                           |          | 2        |           |           |
|                                                                                                                   | 20.10    |              | RFJ       | Roots, fine at joint                                                                                | 00:03:34                           |          | 2        |           |           |
|                                                                                                                   | 22.57    |              | RF        | Roots, fine                                                                                         | 00:03:55                           |          | 2        |           |           |
|                                                                                                                   | 23.97    |              | FL        | Fracture, longitudinal at 11 o'clock                                                                | 00:04:05                           | 7        | 3 / 2    |           |           |
|                                                                                                                   | 27.37    | F01          | DEG       | Attached deposits, grease from 7 o'clock to 5 o'clock, 5% cross-sectional area loss, finish: PATCHY | 00:04:34                           |          | 3        |           |           |
|                                                                                                                   | 27.37    |              | MHF       | Finish node, manhole, reference: SS79867301                                                         | 00:04:34                           |          |          |           |           |
| 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 |
| 7                                                                                                                 | 80.0     | 11.7         | 320.0     | 4.0                                                                                                 | 17                                 | 6.0      | 4.7      | 130.0     | 4.0       |

## Section Pictures - 17/06/2024 - MHC6X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 16       | Downstream           | MHC6X |                  | 18958                |



1, 00:00:19, 0.75 m  
Cracks, multiple from 9 o'clock to 2 o'clock



2, 00:00:50, 2.60 m  
Cracks, multiple at joint from 9 o'clock to 1 o'clock



3, 00:00:58, 3.29 m  
Cracks, multiple from 12 o'clock to 12 o'clock



4, 00:02:00, 10.36 m  
Cracks, multiple at joint from 9 o'clock to 12 o'clock



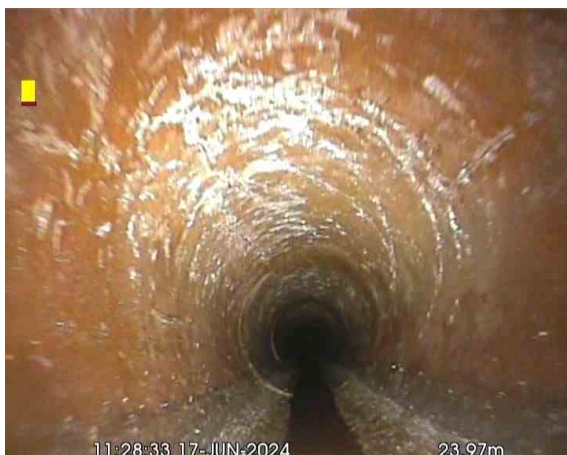
5, 00:02:13, 11.99 m  
Cracks, multiple from 8 o'clock to 3 o'clock



6, 00:02:48, 16.33 m  
Fracture, spiral from 9 o'clock to 11 o'clock

## Section Pictures - 17/06/2024 - MHC6X

| Item No. | Inspection Direction | PLR   | Client's Job Ref | Contractor's Job Ref |
|----------|----------------------|-------|------------------|----------------------|
| 16       | Downstream           | MHC6X |                  | 18958                |



11:28:33 17-JUN-2024 23.97m

7, 00:04:05, 23.97 m  
Fracture, longitudinal at 11 o'clock