**Aquasentry**
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Project

| | |
|---|---|
| Project Name | 2 Sisters Remedial |
| Description | |
| Start Date | 19/06/2017 |

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# Scoring Summary

| Project Name : | Project Number : | Date : |
|---|---|---|
| **2 Sisters Remedial** | | **19/06/2017** |

## Structural Defects

| Section | Pipe Ref | Grade | Description |
|---|---|---|---|
| Acceptable Structural Condition | | | |

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

## Service / Operational Defects

| Section | Pipe Ref | Grade | Description |
|---|---|---|---|
| 3 | LINE AX | 5 | Obstruction from 12 o'clock to 12 o'clock, 95% height loss |

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

## Abandoned Surveys

| Section | Pipe Ref | Description |
|---|---|---|
| All Surveys Completed | | |

## Information

These summaries are based on the SRM grading from the WRC.

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# Project Information

| Project Name | Client's ref : | Contractor's ref : | Date: |
|---|---|---|---|
| **2 Sisters Remedial** | | | **19/06/2017** |

Description

## Client

Company: Two Sisters Poultry Ltd
Contact:
Department:
Street:
City:
Phone:
Fax:
Mobile:
E-Mail:

## Site

Company: Two Sisters Poultry Ltd
Contact:
Department:
Street: Industrial Estate Road
City: Llangefni LL77 7UX
Phone:
Fax:
Mobile:
E-Mail:

## Contractor

Company: Aquasentry
Contact: Darren Todd
Department: General Manager
Street: Plover Road
City: Huddersfield
Phone: 07551154329
Fax:
Mobile:
E-Mail: dtodd@aquasentryes.co.uk

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# Legend of Classification (Section)

| Project Name | Project Number: | Date: |
|---|---|---|
| **2 Sisters Remedial** | | **19/06/2017** |

| | |
|---|---|
| 1: | Brick: No Structural Defects<br>Pipe: No Structural Defects<br><br>Acceptable Structural Condition |
| 2: | Brick: Minor cracking, Surface mortar loss, Spalling slight, Wear slight<br>Pipe: Circumfrential crack, Moderate joint defects, Spalling slight, Wear slight<br><br>Minor collapse risk in short term but potential for further deterioration |
| 3: | Brick: Total mortorloss without other defects, single brick displaced, Deformation up to 5%, Spalling medium, Wear medium<br>Pipe: Fractures with deformation up to 5%, Longitudinal cracking or mulitple cracking, Minor loss of level, More severe joint<br><br>! Collapse unlikely in near future but future deterioration likely ! |
| 4: | Brick: Total mortorloss with deformation greater than 10%, Deformation up to 10% and fractured, Displaced/hanging brickwork, Small number of missing bricks<br>Pipe: Broken, Deformation up to 10% and broken, Fractured with deformation 5 - 10%, Multiple fractures, serious loss of level, Spalling large, Wear large<br><br>!! Collapse likely in foreseeable future !! |
| 5: | Brick: Already collapsed, Missing invert, Deformation over 10% and fractured, Displaced/hanging brickwork and deformation over 10%, Extensive missing bricks<br>Pipe: Already collapsed, Deformation over 10% and broken, Extensive areas of fabric missing, Fractured with deformation over 10%<br><br>!!! Collapsed or collapse imminent !!! |

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# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **1** | **19/06/2017** | | **Dry** | | **LINE AX** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

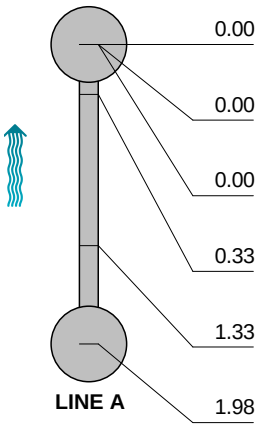
| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH10 〈 LINE A** | US MH: | **LINE A** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **1.98** | DS MH: | **SWMH10** |
| Surface Cover: | | Pipe Length: | | DS Depth: | **1.08** |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:

**1:50**

**Depth: 1.08**
**SWMH10**



**LINE A**

**Depth:**

| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| 0.00 | MH | Manhole: SWMH10 | 00:00:00 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 0.33 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:13 | | 0 |
| 1.33 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:34 | | 0 |
| 1.98 | FH | Finish survey | 00:00:51 | | 0 |

| 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 |

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# Section Pictures - 19/06/2017 - LINE AX

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **1** | **SWMH10 ↑ LINE A** | **LINE AX** | | |

LINE AX_1fbc1e05-b299-436a-9252-769fd5c77bff_20170620_114150_457.jpg, 00:00:13, 0.33m
Sewer lining changes/starts/finishes at this point

LINE AX_84deb483-3fef-402f-b2ed-e27d9877b0ef_20170620_114232_648.jpg, 00:00:34, 1.33m
Sewer lining changes/starts/finishes at this point

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# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **2** | **20/06/2017** | | **Dry** | | **SWMH13X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

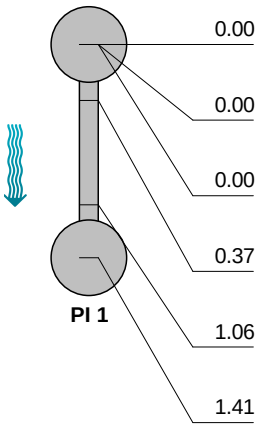
| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH13 ® PI 1** | US MH: | **SWMH13** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | **2.12** |
| Location: | | Total Length | **1.41** | DS MH: | **PI 1** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:

**1:50**

**Depth: 2.12**
**SWMH13**



**PI 1**

**Depth:**

| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| 0.00 | MH | Manhole: SWMH13 | 00:00:00 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 0.37 | LC | Sewer lining changes/starts/finishes at this point: START OF REPAIR PATCH | 00:00:00 | | 0 |
| 1.06 | LC | Sewer lining changes/starts/finishes at this point: END OF REPAIR PATCH | 00:01:03 | | 0 |
| 1.41 | FH | Finish survey | 00:01:13 | | 0 |

| 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 |

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# Section Pictures - 20/06/2017 - SWMH13X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **2** | **SWMH13 ↓ PI 1** | **SWMH13X** | | |

SWMH13X_e7789cd4-cdb6-4824-87b5-772fc65de6b3_20170620_152211_616.jpg, 00:00:00, 0.37m
Sewer lining changes/starts/finishes at this point

SWMH13X_dd588aea-59b7-4d0f-a5c0-c70071613441_20170620_152341_569.jpg, 00:01:03, 1.06m
Sewer lining changes/starts/finishes at this point

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# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **3** | **22/06/2017** | | **Dry** | | **LINE AX** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH11a 〈 LINE A** | US MH: | **LINE A** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **12.73** | DS MH: | **SWMH11a** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:

| 1:108 | Position m | | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|---|
| **Depth: SWMH11a** | | | | | | | |
| | 0.00 | | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| | 0.00 | | ST | Start of survey | 00:00:00 | | 0 |
| | 0.00 | | MH | Manhole: SWMH11a | 00:00:00 | | 0 |
| | 4.19 | F01 | DES | Debris silt, 15% cross-sectional area loss, Finish | 00:00:18 | | 3 |
| | 12.73 | | OB | Obstruction from 12 o'clock to 12 o'clock, 95% height loss | 00:01:49 | | 5 |
| **LINE A** | 12.73 | | FH | Finish survey | 00:02:08 | | 0 |
| **Depth:** | | | | | | | |

| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 0.0 | 0.0 | 0.0 | 1.0 | 2 | 10.0 | 0.9 | 12.0 | 5.0 |

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# Section Pictures - 22/06/2017 - LINE AX

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **3** | **SWMH11a ↑ LINE A** | **LINE AX** | | |

LINE AX_9a7fae94-dcd1-4566-aeb6-42a98a2e9e10_20170622_064255_270.jpg, 00:00:18, 4.19m
Debris silt, 15% cross-sectional area loss, Finish

LINE AX_faa065e7-765e-4826-98de-115a3067a3d6_20170622_064632_571.jpg, 00:01:49, 12.73m
Obstruction from 12 o'clock to 12 o'clock, 95% height loss

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# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **4** | **22/06/2017** | | **Dry** | | **SWMH10X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | | | | **no** | |

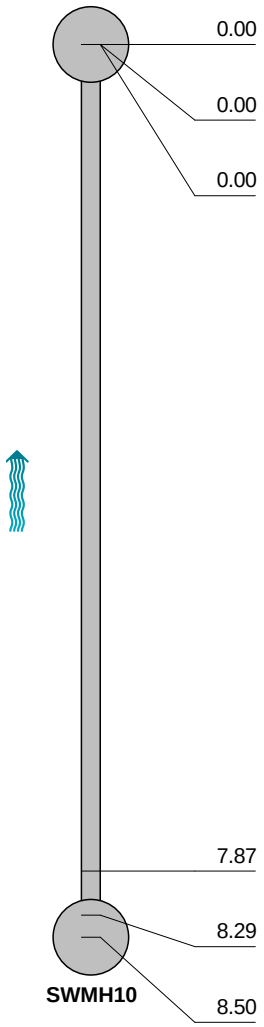
| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH11a 〈 SWMH10** | US MH: | **SWMH10** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **8.50** | DS MH: | **SWMH11a** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:

**1:72**

**Depth:**
**SWMH11a**



| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 0.00 | ST | Start of survey | 00:02:10 | | 0 |
| 0.00 | MH | Manhole: SWMH11a | 00:02:10 | | 0 |
| 7.87 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:24 | | 0 |
| 8.29 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:40 | | 0 |
| 8.50 | FH | Finish survey | 00:01:05 | | 0 |

**SWMH10**

**Depth:**

| 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 |

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# Section Pictures - 22/06/2017 - SWMH10X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **4** | **SWMH11a ↑ SWMH10** | **SWMH10X** | | |

SWMH10X_9aac5131-bd9b-41d0-89fb-81cbdd461637_20170622_065351_994.jpg, 00:00:24, 7.87m
Sewer lining changes/starts/finishes at this point

SWMH10X_19661fd1-2b1b-4a3b-b90b-60378e9481a6_20170622_065335_414.jpg, 00:00:40, 8.29m
Sewer lining changes/starts/finishes at this point

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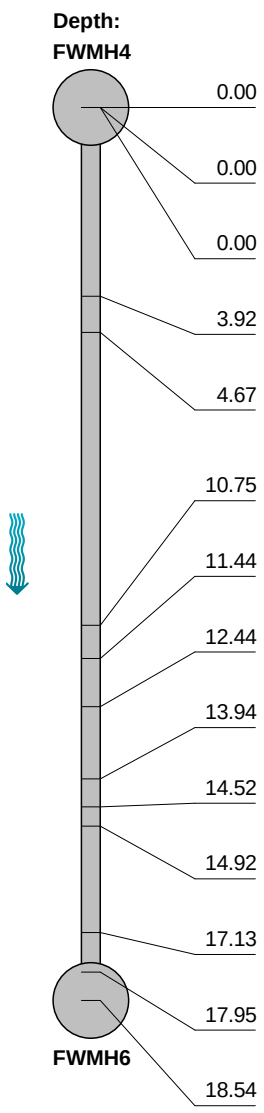
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **5** | **22/06/2017** | | **Dry** | | **FWMH4X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **FWMH4 ® FWMH6** | US MH: | **FWMH4** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **18.54** | DS MH: | **FWMH6** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Foul** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:



| 1:157 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| **Depth:** | | | | | | |
| **FWMH4** | | | | | | |
| | 0.00 | ST | Start of survey | | | 0 |
| | 0.00 | MH | Manhole: FWMH4 | | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| | 3.92 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:00:13 | | 0 |
| | 4.67 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:00:28 | | 0 |
| | 10.75 | LC | Sewer lining changes/starts/finishes at this point: start of patch | 00:01:39 | | 0 |
| | 11.44 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:02:01 | | 0 |
| | 12.44 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:02:20 | | 0 |
| | 13.94 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:02:44 | | 0 |
| | 14.52 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:03:43 | | 0 |
| | 14.92 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:03:58 | | 0 |
| | 17.13 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:05:10 | | 0 |
| | 17.95 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:05:32 | | 0 |
| **FWMH6** | | | | | | |
| | 18.54 | FH | Finish survey | 00:06:25 | | 0 |
| **Depth:** | | | | | | |

| 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 |

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# Section Pictures - 22/06/2017 - FWMH4X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **5** | **FWMH4 ↓ FWMH6** | **FWMH4X** | | |

FWMH4X_a5a4e1c0-3f41-46b2-a799-ba14cea9645c_20170622_124154_329.jpg, 00:00:13, 3.92m
Sewer lining changes/starts/finishes at this point

FWMH4X_7d238d10-2c31-4056-ba13-b0f854e45c75_20170622_124209_132.jpg, 00:00:28, 4.67m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 22/06/2017 - FWMH4X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **5** | **FWMH4 ↓ FWMH6** | **FWMH4X** | | |

FWMH4X_be5f6ca3-4b84-40f6-a85a-a5fcacce18b9_20170622_124309_459.jpg, 00:01:39, 10.75m
Sewer lining changes/starts/finishes at this point

FWMH4X_cf664817-d747-42e8-b4b5-289354077130_20170622_124352_568.jpg, 00:02:01, 11.44m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 22/06/2017 - FWMH4X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **5** | **FWMH4 ↓ FWMH6** | **FWMH4X** | | |

FWMH4X_bd581432-5b32-4c72-bc3b-257f68d926cf_20170622_124544_465.jpg, 00:02:20, 12.44m
Sewer lining changes/starts/finishes at this point

FWMH4X_3f5d34cd-43b8-46bf-a341-98fa62b75929_20170622_124511_205.jpg, 00:02:44, 13.94m
Sewer lining changes/starts/finishes at this point

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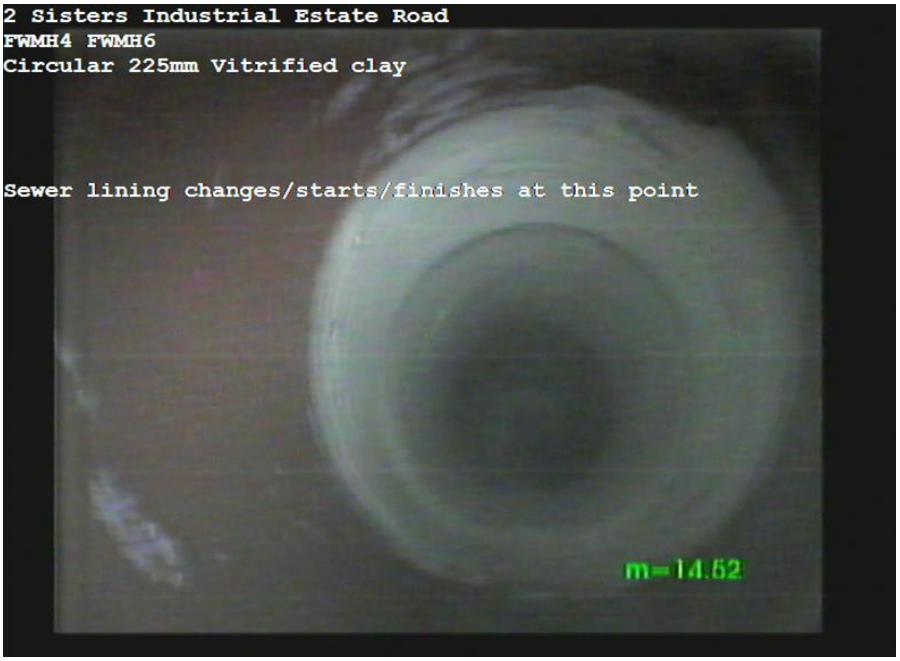
# Section Pictures - 22/06/2017 - FWMH4X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **5** | **FWMH4 ↓ FWMH6** | **FWMH4X** | | |




FWMH4X_88a9eda9-8477-4c78-97fb-2801c5b99fe4_20170622_124623_852.jpg, 00:03:43, 14.52m
Sewer lining changes/starts/finishes at this point

FWMH4X_5235b1f3-41d3-47b2-aef3-8563609d1de4_20170622_124708_162.jpg, 00:03:58, 14.92m
Sewer lining changes/starts/finishes at this point

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*dtodd@aquasentryes.co.uk*

# Section Pictures - 22/06/2017 - FWMH4X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **5** | **FWMH4 ↓ FWMH6** | **FWMH4X** | | |

FWMH4X_c92f4f40-966b-4dac-bea2-30dd2616dc94_20170622_124837_089.jpg, 00:05:10, 17.13m
Sewer lining changes/starts/finishes at this point

FWMH4X_ed670d45-7678-48c9-b225-86665e92ac73_20170622_125005_943.jpg, 00:05:32, 17.95m
Sewer lining changes/starts/finishes at this point

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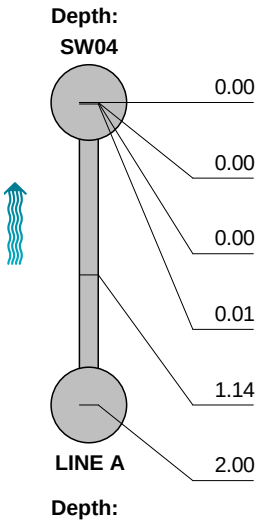
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **6** | **22/06/2017** | | **Dry** | | **LINE AX** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SW04 〈 LINE A** | US MH: | **LINE A** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **2.00** | DS MH: | **SW04** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Foul** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:50 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| | 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| | 0.00 | MH | Manhole: SW04 | 00:00:00 | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| | 0.01 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:00 | | 0 |
| | 1.14 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:55 | | 0 |
| | 2.00 | FH | Finish survey | 00:01:00 | | 0 |

| 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 |

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# Section Pictures - 22/06/2017 - LINE AX

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **6** | **SW04 ↑ LINE A** | **LINE AX** | | |

LINE AX_10d967aa-013c-411f-940f-b1f16ea068d3_20170622_155832_243.jpg, 00:00:00, 0.01m
Sewer lining changes/starts/finishes at this point

LINE AX_977b7323-0c73-4586-91dc-48bb27dec19d_20170622_160013_701.jpg, 00:00:55, 1.14m
Sewer lining changes/starts/finishes at this point

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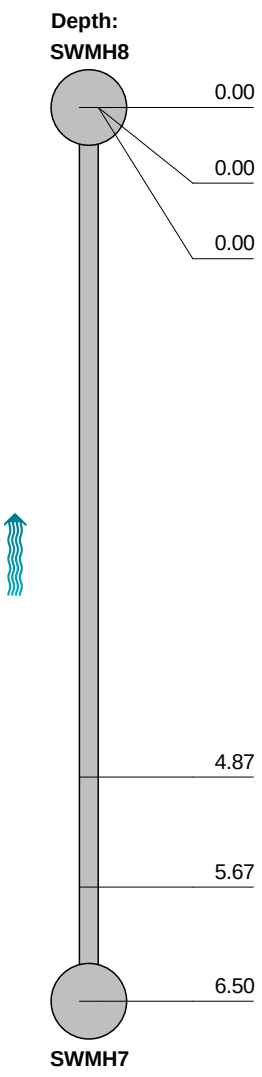
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **7** | **22/06/2017** | | **Dry** | | **SWMH7X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Crawler** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH8 〈 SWMH7** | US MH: | **SWMH7** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **6.50** | DS MH: | **SWMH8** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| 0.00 | MH | Manhole: SWMH8 | 00:00:00 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 4.87 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:00:38 | | 0 |
| 5.67 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:01:04 | | 0 |
| 6.50 | FH | Finish survey | 00:01:14 | | 0 |

| 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 |

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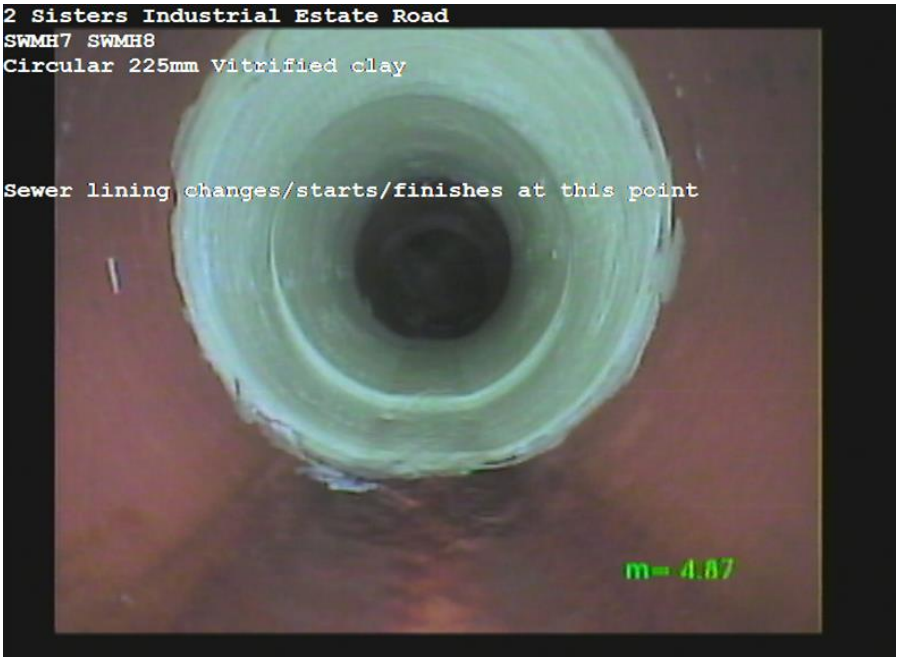
# Section Pictures - 22/06/2017 - SWMH7X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **7** | **SWMH8 ↑ SWMH7** | **SWMH7X** | | |




SWMH7X_403ed8c3-5bb3-4782-8120-80dc687a1669_20170622_174835_108.jpg, 00:00:38, 4.87m
Sewer lining changes/starts/finishes at this point

SWMH7X_051899fe-31e4-47c8-bb6f-31994bfe1854_20170622_174924_754.jpg, 00:01:04, 5.67m
Sewer lining changes/starts/finishes at this point

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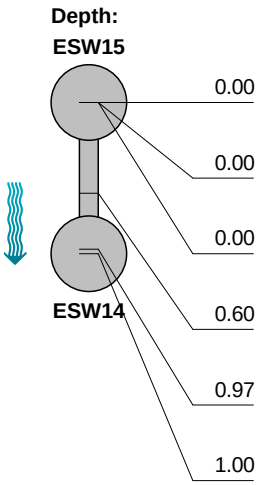
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **8** | **23/06/2017** | | **Dry** | | **ESW15X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **ESW15 ® ESW14** | US MH: | **ESW15** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **1.00** | DS MH: | **ESW14** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:50 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| | 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| | 0.00 | MH | Manhole: ESW15 | 00:00:00 | | 0 |
| | 0.00 | WL | Water level, 15% of sewer height | 00:00:00 | | 0 |
| | 0.60 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:00 | | 0 |
| | 0.97 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:36 | | 0 |
| | 1.00 | FH | Finish survey | 00:00:46 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - ESW15X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **8** | **ESW15 ↓ ESW14** | **ESW15X** | | |

ESW15X_3ec77f19-61bf-4152-aa76-f4e0fd1c5cb7_20170623_055005_159.jpg, 00:00:00, 0.60m
Sewer lining changes/starts/finishes at this point

ESW15X_6fe1855c-35e8-4c99-b2ea-e23cb511dbcc_20170623_055102_253.jpg, 00:00:36, 0.97m
Sewer lining changes/starts/finishes at this point

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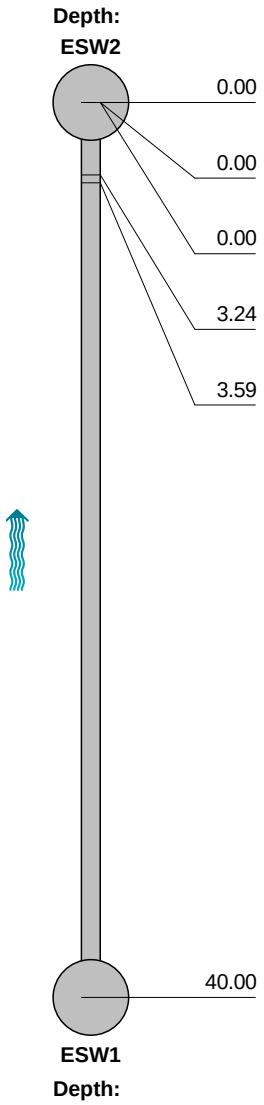
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **9** | **23/06/2017** | | **Dry** | | **ESW1X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **ESW2 〈 ESW1** | US MH: | **ESW1** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **40.00** | DS MH: | **ESW2** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:46 | | 0 |
| 0.00 | MH | Manhole: ESW2 | 00:00:46 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 3.24 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:22 | | 0 |
| 3.59 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:37 | | 0 |
| 40.00 | FH | Finish survey | 00:01:08 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - ESW1X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **9** | **ESW2 ↑ ESW1** | **ESW1X** | | |

ESW1X_4b29e6cd-490b-47bc-83e7-2f95f5e0d252_20170623_060337_733.jpg, 00:00:22, 3.24m
Sewer lining changes/starts/finishes at this point

ESW1X_700d08c7-09af-4d30-8327-ce8141aca2d9_20170623_060428_381.jpg, 00:00:37, 3.59m
Sewer lining changes/starts/finishes at this point

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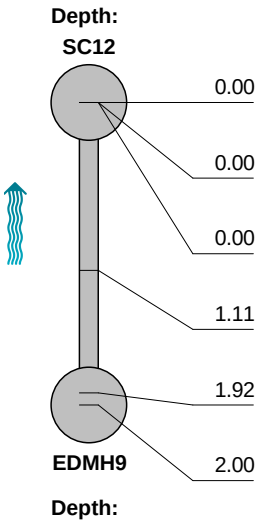
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **10** | **23/06/2017** | | **Dry** | | **EDMH9X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SC12 〈 EDMH9** | US MH: | **EDMH9** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **2.00** | DS MH: | **SC12** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:50 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| | 0.00 | ST | Start of survey | | | 0 |
| | 0.00 | MH | Manhole: SC12 | | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| | 1.11 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:00:14 | | 0 |
| | 1.92 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:00:35 | | 0 |
| | 2.00 | FH | Finish survey | 00:00:42 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - EDMH9X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **10** | **SC12 ↑ EDMH9** | **EDMH9X** | | |

EDMH9X_1028eca3-c83e-4294-9535-3f5dc0afc082_20170623_115430_503.jpg, 00:00:14, 1.11m
Sewer lining changes/starts/finishes at this point

EDMH9X_1c9921d1-9b57-4d02-b12d-2d46032187ea_20170623_115512_696.jpg, 00:00:35, 1.92m
Sewer lining changes/starts/finishes at this point

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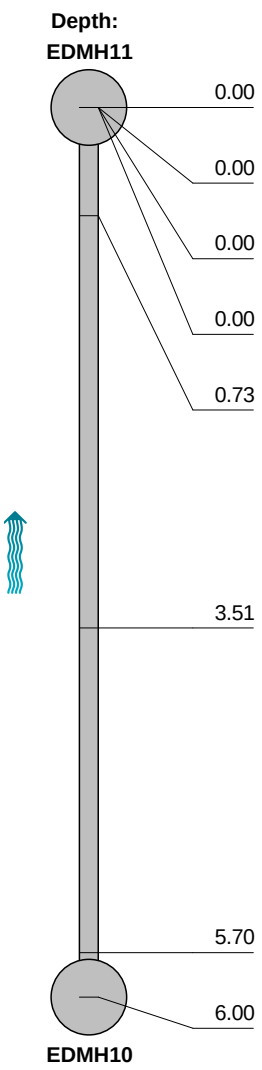
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **11** | **23/06/2017** | | **Dry** | | **EDMH10X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **EDMH11 〈 EDMH10** | US MH: | **EDMH10** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **6.00** | DS MH: | **EDMH11** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| 0.00 | MH | Manhole: EDMH11 | 00:00:00 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 0.00 | LC | Sewer lining changes/starts/finishes at this point: start of patch repiar | 00:00:04 | | 0 |
| 0.73 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:00:25 | | 0 |
| 3.51 | LC | Sewer lining changes/starts/finishes at this point: start of patch rerpiar | 00:00:58 | | 0 |
| 5.70 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:01:40 | | 0 |
| 6.00 | FH | Finish survey | 00:01:44 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - EDMH10X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **11** | **EDMH11 ↑ EDMH10** | **EDMH10X** | | |

EDMH10X_b9de2752-edb1-4100-80fb-94f571934139_20170623_122606_461.jpg, 00:00:04, 0.00m
Sewer lining changes/starts/finishes at this point

EDMH10X_184e0cd9-7154-424c-9ab7-e700b0c67050_20170623_122308_167.jpg, 00:00:25, 0.73m
Sewer lining changes/starts/finishes at this point

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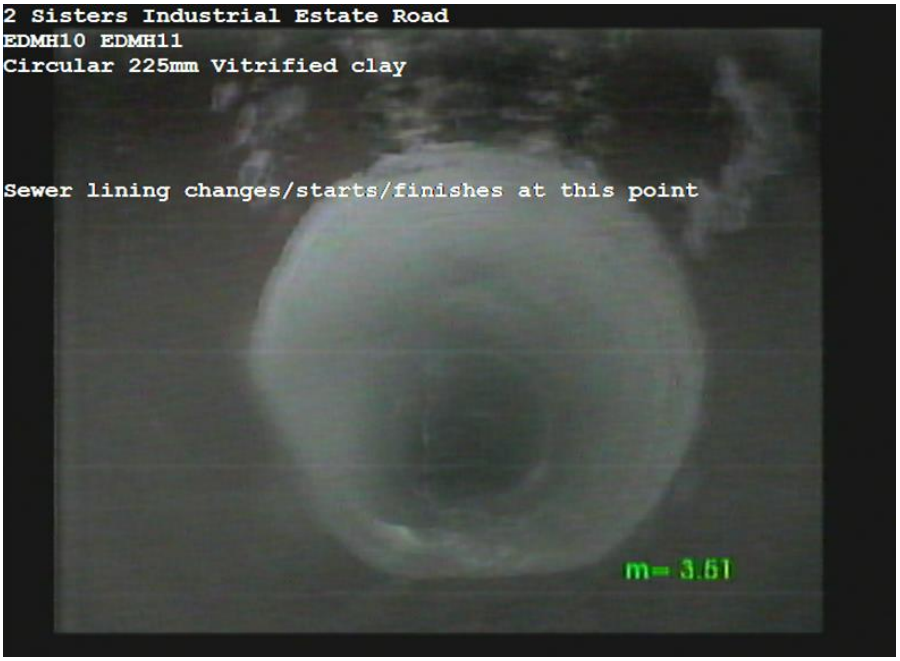
# Section Pictures - 23/06/2017 - EDMH10X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **11** | **EDMH11 ↑ EDMH10** | **EDMH10X** | | |




EDMH10X_10becd6d-ca3b-47f4-b675-749b49a00ead_20170623_122402_761.jpg, 00:00:58, 3.51m
Sewer lining changes/starts/finishes at this point

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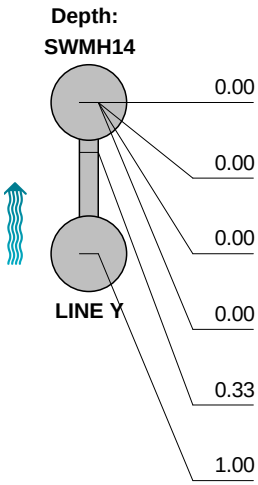
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **12** | **23/06/2017** | | **Dry** | | **LINE YX** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH14 〈 LINE Y** | US MH: | **LINE Y** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **1.00** | DS MH: | **SWMH14** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:50 Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| 0.00 | MH | Manhole: SWMH14 | 00:00:00 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 0.00 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:02 | | 0 |
| 0.33 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:24 | | 0 |
| 1.00 | FH | Finish survey | 00:00:32 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - LINE YX

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **12** | **SWMH14 ↑ LINE Y** | **LINE YX** | | |

LINE YX_021c3de1-5d3d-41df-b5ab-a3a3a360c7d1_20170623_133006_960.jpg, 00:00:02, 0.00m
Sewer lining changes/starts/finishes at this point

LINE YX_0e3e7a11-6a3b-4479-8b92-bfbe4fb0f9d8_20170623_133045_762.jpg, 00:00:24, 0.33m
Sewer lining changes/starts/finishes at this point

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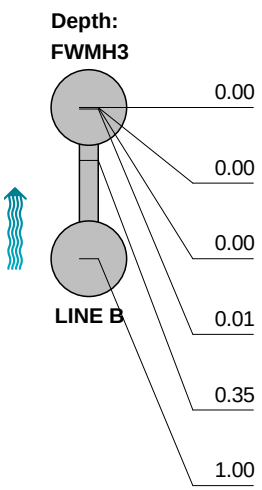
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **13** | **23/06/2017** | | **Dry** | | **LINE BX** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **FWMH3 〈 LINE B** | US MH: | **LINE B** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **1.00** | DS MH: | **FWMH3** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **100 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:50 Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:01:37 | | 0 |
| 0.00 | MH | Manhole: FWMH3 | 00:01:37 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:01:37 | | 0 |
| 0.01 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:00:00 | | 0 |
| 0.35 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:00:44 | | 0 |
| 1.00 | FH | Finish survey | 00:00:49 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - LINE BX

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **13** | **FWMH3 ↑ LINE B** | **LINE BX** | | |

LINE BX_98fe3b8d-390e-491a-974a-eccb7cfcbd41_20170623_134034_080.jpg, 00:00:00, 0.01m
Sewer lining changes/starts/finishes at this point

LINE BX_f2997f23-f1f9-4459-bfec-56504196a0b0_20170623_134129_319.jpg, 00:00:44, 0.35m
Sewer lining changes/starts/finishes at this point

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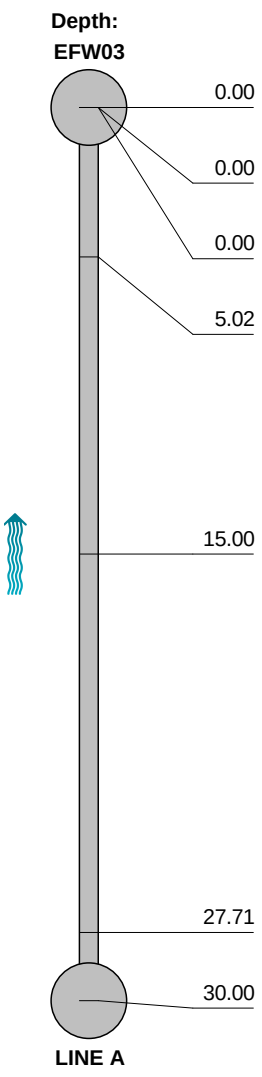
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **14** | **23/06/2017** | | **Dry** | | **LINE AX** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **EFW03 〈 LINE A** | US MH: | **LINE A** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **30.00** | DS MH: | **EFW03** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Trade effluent** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Cast iron** |

Comment:
Recommendation:




| 1:254 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| | 0.00 | ST | Start of survey | | | 0 |
| | 0.00 | MH | Manhole: EFW03 | | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| | 5.02 | GO | General observation: clean line | 00:00:25 | | 0 |
| | 15.00 | GO | General observation: clean line | 00:01:08 | | 0 |
| | 27.71 | GO | General observation: clean line | 00:01:53 | | 0 |
| | 30.00 | FH | Finish survey | 00:02:02 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - LINE AX

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **14** | **EFW03 ↑ LINE A** | **LINE AX** | | |

LINE AX_d3bffbfc-e241-4174-9c5a-c0807aeeb59f_20170623_145635_959.jpg, 00:00:25, 5.02m
General observation

LINE AX_53e7044a-faef-460c-9acc-e4cde0e60f57_20170623_145847_261.jpg, 00:01:53, 27.71m
General observation

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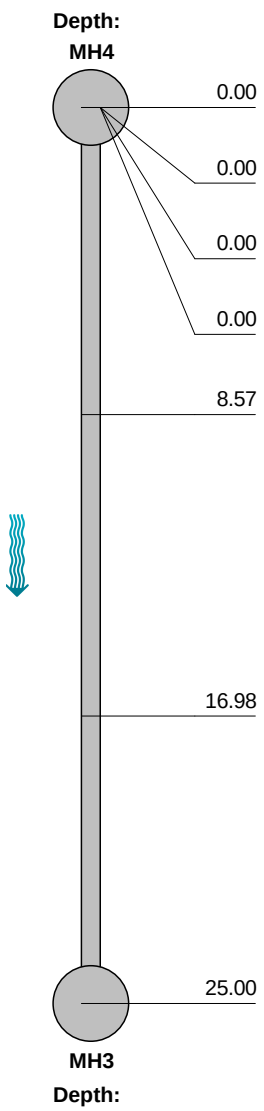
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **15** | **23/06/2017** | | **Dry** | | **MH4X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **MH4 ® MH3** | US MH: | **MH4** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **25.00** | DS MH: | **MH3** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Trade effluent** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Cast iron** |

Comment:
Recommendation:



| 1:211 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| **Depth: MH4** | | | | | | |
| | 0.00 | ST | Start of survey | 00:02:15 | | 0 |
| | 0.00 | MH | Manhole: MH4 | 00:02:15 | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:02:15 | | 0 |
| | 0.00 | GO | General observation: clean line | 00:00:00 | | 0 |
| | 8.57 | GO | General observation: clean line | 00:00:20 | | 0 |
| | 16.98 | GO | General observation: clean line | 00:01:04 | | 0 |
| | 25.00 | FH | Finish survey | 00:01:49 | | 0 |
| **MH3 Depth:** | | | | | | |

| 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 |

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# Section Pictures - 23/06/2017 - MH4X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **15** | **MH4 ↓ MH3** | **MH4X** | | |

MH4X_4fb7f44a-4363-4648-a26a-c8f01d422142_20170623_150213_686.jpg, 00:00:20, 8.57m
General observation

MH4X_769206cb-55be-4d24-87d2-f92dce9deaf2_20170623_150315_109.jpg, 00:01:04, 16.98m
General observation

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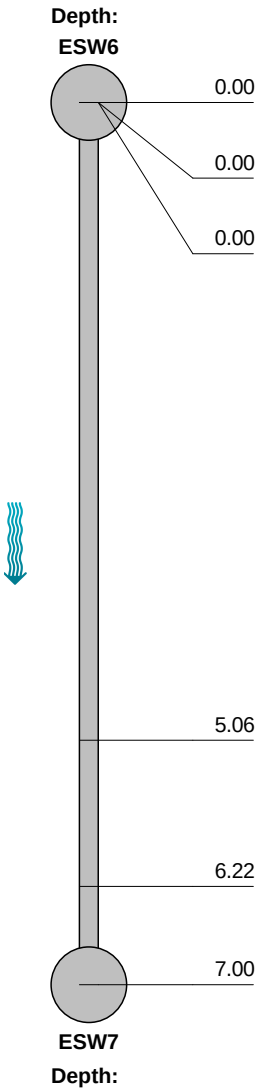
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **16** | **23/06/2017** | | **Dry** | | **ESW6X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **ESW6 ® ESW7** | US MH: | **ESW6** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **7.00** | DS MH: | **ESW7** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Foul** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | | | 0 |
| 0.00 | MH | Manhole: ESW6 | | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 5.06 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:24 | | 0 |
| 6.22 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:00:47 | | 0 |
| 7.00 | FH | Finish survey | 00:00:53 | | 0 |

| 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 |

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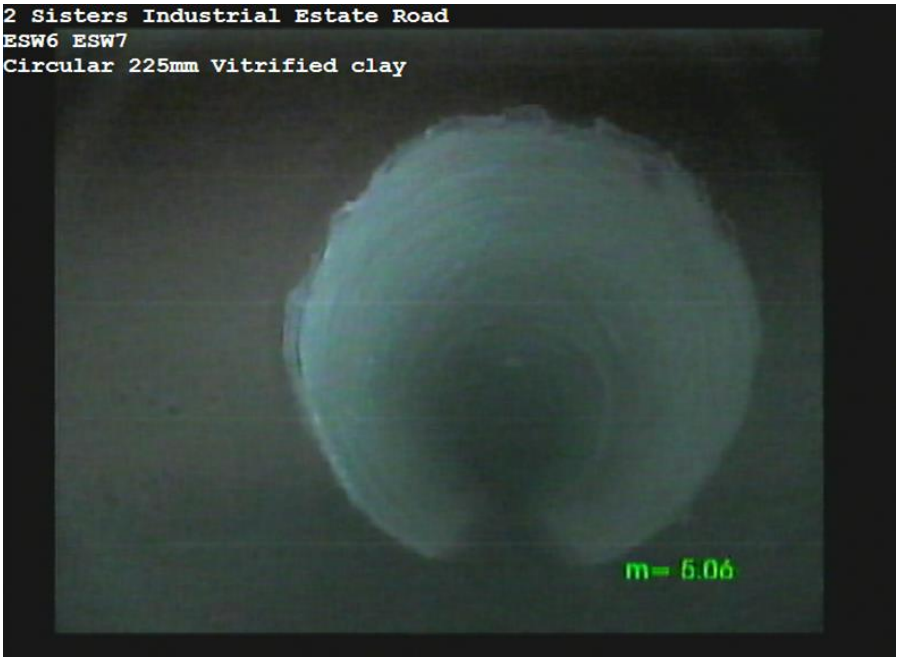
# Section Pictures - 23/06/2017 - ESW6X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **16** | **ESW6 ↓ ESW7** | **ESW6X** | | |




ESW6X_137b160a-0fda-49b2-8dfa-3f02a1eb49f4_20170623_152309_067.jpg, 00:00:24, 5.06m
Sewer lining changes/starts/finishes at this point

ESW6X_48006c78-d775-4be3-81e2-b1af41b6605d_20170623_152353_093.jpg, 00:00:47, 6.22m
Sewer lining changes/starts/finishes at this point

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# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **17** | **23/06/2017** | | **Dry** | | **SWMH14X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

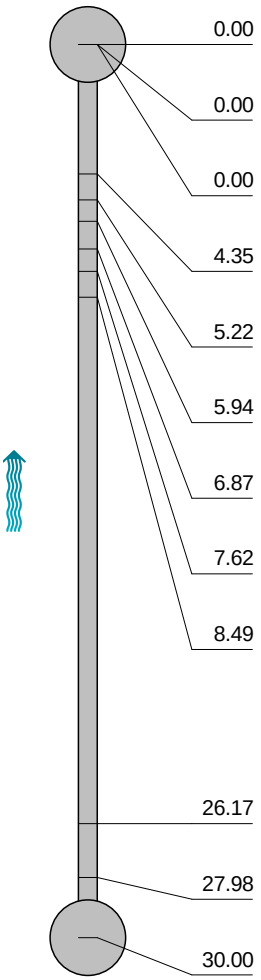
| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH13 〈 SWMH14** | US MH: | **SWMH14** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **30.00** | DS MH: | **SWMH13** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:

**1:254**

**Depth:**
**SWMH13**



| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:00:53 | | 0 |
| 0.00 | MH | Manhole: SWMH13 | 00:00:53 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:00:00 | | 0 |
| 4.35 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:33 | | 0 |
| 5.22 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:01:51 | | 0 |
| 5.94 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:02:19 | | 0 |
| 6.87 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:02:38 | | 0 |
| 7.62 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:02:55 | | 0 |
| 8.49 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:03:20 | | 0 |
| 26.17 | LC | Sewer lining changes/starts/finishes at this point: start of pacth repair | 00:04:59 | | 0 |
| 27.98 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:05:21 | | 0 |
| 30.00 | FH | Finish survey | 00:05:30 | | 0 |

**SWMH14**
**Depth:**

| 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 |

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# Section Pictures - 23/06/2017 - SWMH14X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **17** | **SWMH13 ↑ SWMH14** | **SWMH14X** | | |

SWMH14X_5ee8f9ab-a427-48ce-83c6-79fee2651629_20170623_153055_237.jpg, 00:00:33, 4.35m
Sewer lining changes/starts/finishes at this point

SWMH14X_3cf4f22c-c7c9-4d10-aa1f-c9d3c18e2699_20170623_153243_031.jpg, 00:01:51, 5.22m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH14X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **17** | **SWMH13 ↑ SWMH14** | **SWMH14X** | | |

SWMH14X_e0851588-5522-4343-9d17-d992fabaab4a_20170623_153331_869.jpg, 00:02:19, 5.94m
Sewer lining changes/starts/finishes at this point

SWMH14X_bc4eaccb-041a-4fe0-ace0-eca2422328ec_20170623_153408_637.jpg, 00:02:38, 6.87m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH14X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **17** | **SWMH13 ↑ SWMH14** | **SWMH14X** | | |

SWMH14X_039edf5b-f555-4637-8925-239dbac8b440_20170623_153441_115.jpg, 00:02:55, 7.62m
Sewer lining changes/starts/finishes at this point

SWMH14X_491e6763-f1d0-4a81-825a-773ee96bd826_20170623_153750_342.jpg, 00:04:59, 26.17m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH14X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **17** | **SWMH13 ↑ SWMH14** | **SWMH14X** | | |

SWMH14X_58a39c6a-91ba-4d30-a303-18e4979c10cb_20170623_153836_690.jpg, 00:05:21, 27.98m
Sewer lining changes/starts/finishes at this point

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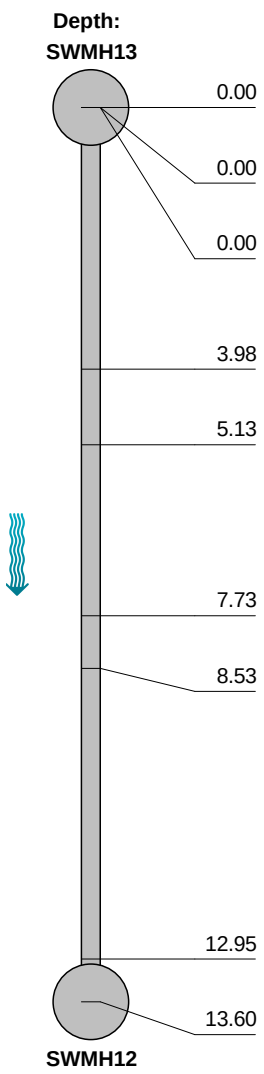
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **18** | **23/06/2017** | | **Dry** | | **SWMH13X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | **NL63 HYS** | **Pushrod** | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH13 ® SWMH12** | US MH: | **SWMH13** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **13.60** | DS MH: | **SWMH12** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:



| 1:115 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| **Depth: SWMH13** | | | | | | |
| | 0.00 | ST | Start of survey | 00:00:00 | | 0 |
| | 0.00 | MH | Manhole: SWMH13 | 00:06:32 | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:06:32 | | 0 |
| | 3.98 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:06:32 | | 0 |
| | 5.13 | LC | Sewer lining changes/starts/finishes at this point: end of patch rerpair | 00:00:16 | | 0 |
| | 7.73 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:00:49 | | 0 |
| | 8.53 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:01:02 | | 0 |
| | 12.95 | LC | Sewer lining changes/starts/finishes at this point: strat of repair patch | 00:01:34 | | 0 |
| | 13.60 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:01:51 | | 0 |
| **SWMH12 Depth:** | | | | | | |

| 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 |

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# Section Pictures - 23/06/2017 - SWMH13X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **18** | **SWMH13 ↓ SWMH12** | **SWMH13X** | | |

SWMH13X_8cb6fbfa-99dc-4d21-a428-313d3db1b8f1_20170623_154227_380.jpg, 00:06:32, 3.98m
Sewer lining changes/starts/finishes at this point

SWMH13X_5f5bbc2f-0c8b-4f0e-badc-9bf328a41d29_20170623_154327_385.jpg, 00:00:16, 5.13m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH13X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **18** | **SWMH13 ↓ SWMH12** | **SWMH13X** | | |

SWMH13X_bd16db54-2aa8-43dd-975d-c54e5d65a4a8_20170623_154422_191.jpg, 00:00:49, 7.73m
Sewer lining changes/starts/finishes at this point

SWMH13X_4f7a62b8-330c-4daf-a230-443930e307f4_20170623_154503_096.jpg, 00:01:02, 8.53m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH13X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **18** | **SWMH13 ↓ SWMH12** | **SWMH13X** | | |

SWMH13X_bacebbe2-a1fc-441e-b5a9-b96c6fbb4217_20170623_154609_181.jpg, 00:01:34, 12.95m
Sewer lining changes/starts/finishes at this point

SWMH13X_08acc3c8-6cf6-41b0-aeae-9900846d65c2_20170623_154717_579.jpg, 00:01:51, 13.60m
Sewer lining changes/starts/finishes at this point

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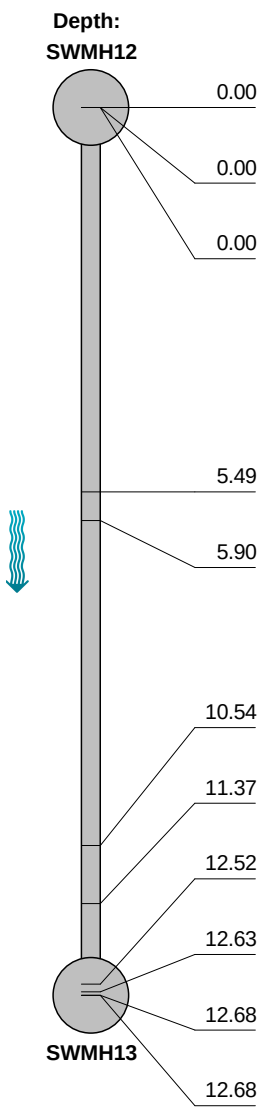
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **19** | **23/06/2017** | | **Dry** | | **SWMH12X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | | | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **SWMH12 ® SWMH13** | US MH: | **SWMH12** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **12.68** | DS MH: | **SWMH13** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|
| 0.00 | ST | Start of survey | 00:02:33 | | 0 |
| 0.00 | MH | Manhole: SWMH12 | 00:02:33 | | 0 |
| 0.00 | WL | Water level, 5% of sewer height | 00:02:33 | | 0 |
| 5.49 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:02:33 | | 0 |
| 5.90 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:00:00 | | 0 |
| 10.54 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:00:19 | | 0 |
| 11.37 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:00:44 | | 0 |
| 12.52 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:01:30 | | 0 |
| 12.63 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair12.63 | 00:01:48 | | 0 |
| 12.68 | DC | Dimension of sewer changes, new (vertical) diameter: 100mm | 00:02:01 | | 0 |
| 12.68 | FH | Finish survey | 00:02:11 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - SWMH12X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **19** | **SWMH12 ↓ SWMH13** | **SWMH12X** | | |

SWMH12X_f37b4eed-09d8-4083-824e-31aa07f8e42c_20170623_155844_389.jpg, 00:02:33, 5.49m
Sewer lining changes/starts/finishes at this point

SWMH12X_81ab399a-8ae1-4155-81d9-0ddff52074c4_20170623_155928_081.jpg, 00:00:00, 5.90m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH12X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **19** | **SWMH12 ↓ SWMH13** | **SWMH12X** | | |

SWMH12X_aec8aa87-c7b4-47b6-9bc8-d217bd1f5245_20170623_160021_820.jpg, 00:00:19, 10.54m
Sewer lining changes/starts/finishes at this point

SWMH12X_075f19c8-260a-4442-bee9-583696bc34d0_20170623_160120_183.jpg, 00:00:44, 11.37m
Sewer lining changes/starts/finishes at this point

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# Section Pictures - 23/06/2017 - SWMH12X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **19** | **SWMH12 ↓ SWMH13** | **SWMH12X** | | |

SWMH12X_d05aedc9-15cb-41da-85b7-c522af7caab4_20170623_160227_720.jpg, 00:01:30, 12.52m
Sewer lining changes/starts/finishes at this point

SWMH12X_c8d34e41-a42c-494e-8bee-21741b3b94a9_20170623_160421_393.jpg, 00:02:01, 12.68m
Dimension of sewer changes, new (vertical) diameter: 100mm

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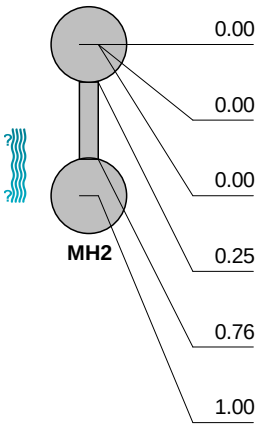
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **20** | **23/06/2017** | | **Dry** | | **MH1X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | | | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | | US MH: | **MH1** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **1.00** | DS MH: | **MH2** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Surface water** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **150 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:50 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| | 0.00 | ST | Start of survey | 00:02:11 | | 0 |
| | 0.00 | MH | Manhole: MH1 | 00:02:11 | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:02:11 | | 0 |
| | 0.25 | LC | Sewer lining changes/starts/finishes at this point: start of repair patch | 00:02:11 | | 0 |
| | 0.76 | LC | Sewer lining changes/starts/finishes at this point: end of repair patch | 00:02:11 | | 0 |
| | 1.00 | FH | Finish survey | 00:02:11 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - MH1X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **20** | | **MH1X** | | |

MH1X_1d1fd957-b692-47b7-a99a-d8147e191c6d_20170623_160803_390.jpg, 00:02:11, 0.25m
Sewer lining changes/starts/finishes at this point

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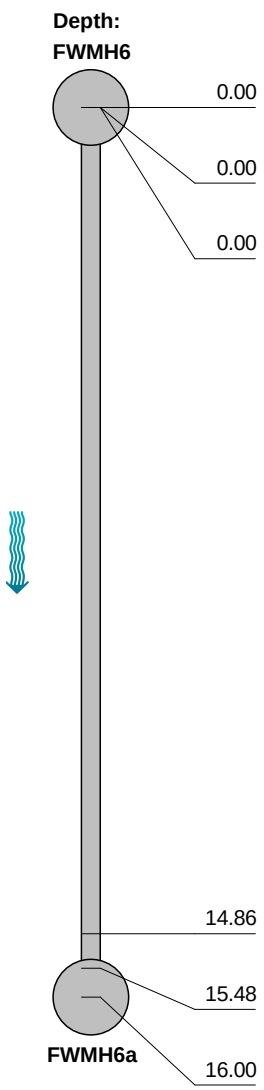
# Inspection Report

| Section Number : | Date : | Client's Ref : | Weather : | Critial Drain/Sewer: | PLR : |
|---|---|---|---|---|---|
| **21** | **23/06/2017** | | **Dry** | | **FWMH6X** |
| Operator : | Vehicle : | Camera : | Preset : | Cleaned : | Type of Drain : |
| **RH** | | | | **no** | |

| | | | | | |
|---|---|---|---|---|---|
| Place: | **2 Sisters** | Direction: | **FWMH6 ® FWMH6a** | US MH: | **FWMH6** |
| Road: | **Industrial Estate Road** | Catchment: | **Llangefni LL77 7UX** | US Depth: | |
| Location: | | Total Length | **16.00** | DS MH: | **FWMH6a** |
| Surface Cover: | | Pipe Length: | | DS Depth: | |

| | | | |
|---|---|---|---|
| Use: | **Foul** | Pipe Shape: | **Circular** |
| Year Laid: | | Width / Height | **225 / 0** |
| Purpose: | **Post inspection of repairs or renovations** | Flow Control: | |
| Lining: | | Pipe Material: | **Vitrified clay** |

Comment:
Recommendation:




| 1:136 | Position m | Code | Observation | MPEG | Photo | Grade |
|---|---|---|---|---|---|---|
| | 0.00 | ST | Start of survey | 00:02:11 | | 0 |
| | 0.00 | MH | Manhole: FWMH6 | 00:02:11 | | 0 |
| | 0.00 | WL | Water level, 5% of sewer height | 00:02:11 | | 0 |
| | 14.86 | LC | Sewer lining changes/starts/finishes at this point: start of patch repair | 00:02:11 | | 0 |
| | 15.48 | LC | Sewer lining changes/starts/finishes at this point: end of patch repair | 00:02:11 | | 0 |
| | 16.00 | FH | Finish survey | 00:02:11 | | 0 |

| 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 |

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# Section Pictures - 23/06/2017 - FWMH6X

| Section Number : | Survey Direction : | PLR : | Client's Ref : | Contractor's Ref : |
|---|---|---|---|---|
| **21** | **FWMH6 ↓ FWMH6a** | **FWMH6X** | | |

FWMH6X_dfcc0f2a-afa2-4db1-bc94-2e6f148f5554_20170623_161706_052.jpg, 00:02:11, 14.86m
Sewer lining changes/starts/finishes at this point

FWMH6X_daff379e-f0fc-4b2e-9292-191b6c348b9d_20170623_161818_438.jpg, 00:02:11, 15.48m
Sewer lining changes/starts/finishes at this point