



## Project

**Project Name:** Arun DC Slindon Pond Scheme Church Hill Slindon WestSussex

**Project Date:** 03/12/2020

**Inspection Standard:** MSCC5 Sewers & Drainage GB (SRM5 Scoring)

**DYNO**



## Project Information

| Project Name   | Project Number | Project Date |
|--|----------------|--------------|
| Arun DC Slindon Pond Scheme Church Hill Slindon WestSussex |                | 03/12/2020   |

### Client

**Company:** Arun District Council  
**Description:** Municiple Org  
**Contact:** Mr Paul Cann  
**Department:** Principal Drainage Engineer  
**Street:** Civic Centre, Maltravers Road  
**Town or City:** Ltllehampton  
**County:** West Sussex  
**Post Code:** BN17 5LF  
**Phone:** 01903 737819  
**Email:** paul.cann@arun.gov.uk

### Site

**Company:** Slindon Pond Scheme  
**Description:** Parish Council  
**Contact:** Mr Paul Cann  
**Department:** Principle Drainage Engineer  
**Street:** Church Hill  
**Town or City:** Slindon  
**County:** West Sussex

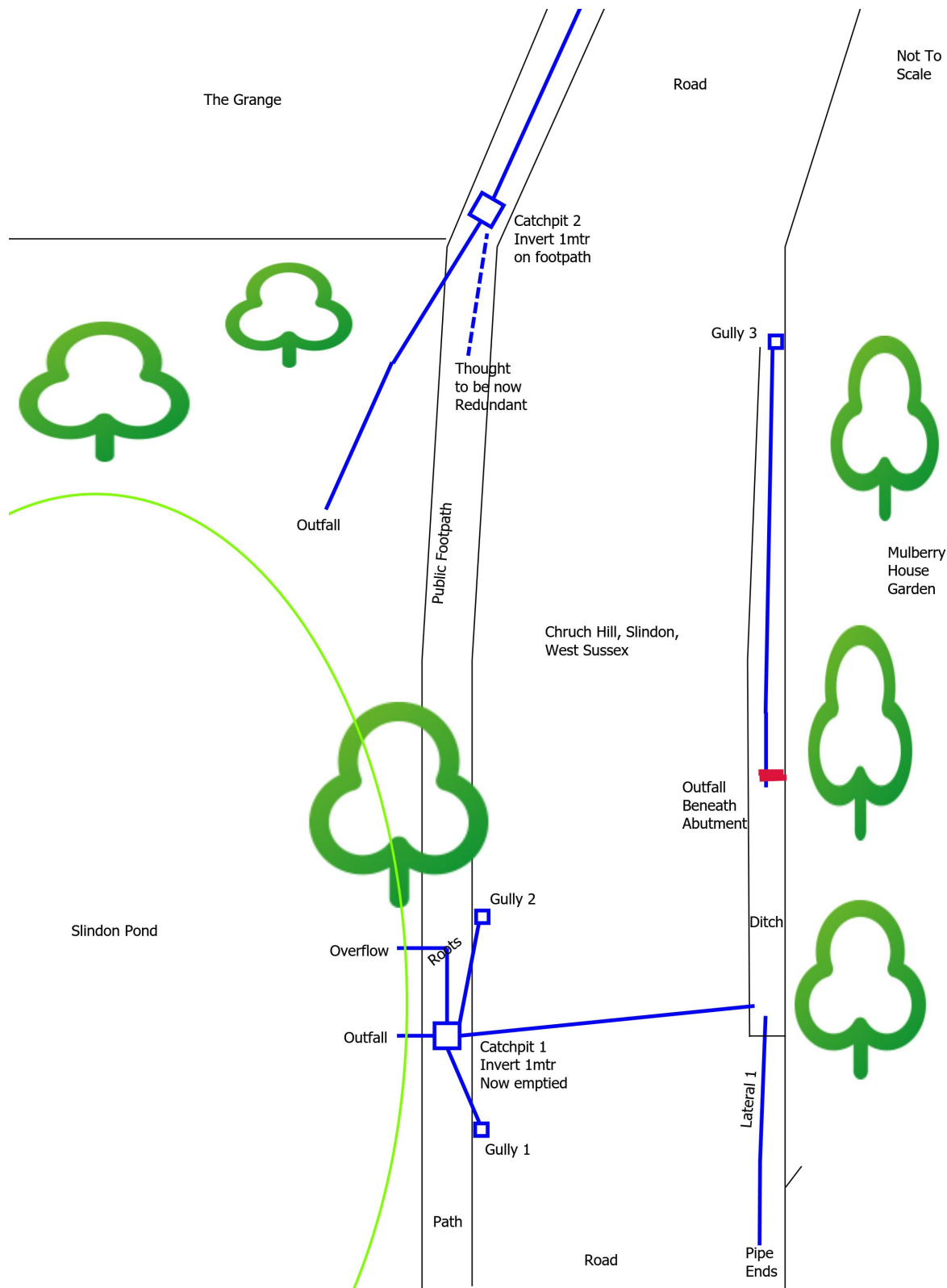
### Contractor

**Company:** P Fitzsimmons Ltd  
**Street:** Unit D, Fort Wallington Industrial Estate  
**Town or City:** Military Road, Fareham  
**County:** Hampshire  
**Post Code:** PO16 8TT  
**Phone:** 01329801240  
**Email:** office@dynosouth.co.uk

## Project Information

| Project Name   | Project Number | Project Date |
|--|----------------|--------------|
| Arun DC Slindon Pond Scheme Church Hill Slindon WestSussex |                | 03/12/2020   |

## Project Drawing, Page Arun DC Slindon Pond Scheme Church Hill Slindon





## Project Pictures

| Project Name   | Project Number | Project Date |
|--|----------------|--------------|
| Arun DC Slindon Pond Scheme Church Hill Slindon WestSussex |                | 03/12/2020   |



Catch pit 1 looking up Church Hill



Catch pit 1



Catch pit 2 Looking towards pond



Gully 3



Open pipe in Ditch upstream to Gully 3



Overflow and Lateral to Gully 2 inside Catch pit 1

## Project Pictures

| Project Name   | Project Number | Project Date |
|--|----------------|--------------|
| Arun DC Slindon Pond Scheme Church Hill Slindon WestSussex |                | 03/12/2020   |



Pipe from Ditch beneath road to CP 1 and Lateral 1 pipe top of screen



Root mass from Gullies 1 & 2

## Section Inspection - 03/12/2020 - To DitchX

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 1              | 1          | 03/12/20           | 15:37 | Not Specified    | Rain          | Yes               | TO DITCHX      |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |                                  |                              |           |                               |          |
|----------------------------|----------------------------------|------------------------------|-----------|-------------------------------|----------|
| <b>Town or Village:</b>    | Slindon                          | <b>Inspection Direction:</b> | Upstream  | <b>Upstream Node:</b>         | TO DITCH |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill | <b>Inspected Length:</b>     | 6.36 m    | <b>Upstream Pipe Depth:</b>   |          |
| <b>Location:</b>           | Road                             | <b>Total Length:</b>         | 6.36 m    | <b>Downstream Node:</b>       | SMH 1    |
| <b>Surface Type:</b>       | Asphalt Highway                  | <b>Joint Length:</b>         | 0.00 m    | <b>Downstream Pipe Depth:</b> |          |
| <b>Use:</b>                | Surface water                    | <b>Pipe Shape:</b>           | Circular  |                               |          |
| <b>Type of Pipe:</b>       | Gravity drain/sewer              | <b>Dia/Height:</b>           | 225 mm    | <b>Width:</b>                 | 225 mm   |
| <b>Year Constructed:</b>   |                                  | <b>Material:</b>             | Concrete  |                               |          |
| <b>Flow Control:</b>       | No flow control                  | <b>Lining Type:</b>          | No Lining |                               |          |
| <b>Inspection Purpose:</b> | Investigation of known defects   | <b>Lining Material:</b>      | No Lining |                               |          |

### Comments:

Recommendations: Yes

Scale: 1:56 Position [m] Code Observation MPEG Photo Grade

Depth: m  
SMH 1



0.00

MH

Start node type, manhole, reference number: SMH 1: Start

00:00:00

To  
DitchX\_31  
dbe6d3-3b

6.36

OFF

Finish node type, outfall, reference number: To Ditch: Finish at Ditch

00:00:44

To  
DitchX\_5e  
a67012-d6

To Ditch  
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 Pictures - 03/12/2020 - To DitchX

| Section<br>1 | Inspection Direction<br>Upstream | PLR<br>TO DITCHX | Client's Job Ref | Contractor's Job Ref |
|--------------|----------------------------------|------------------|------------------|----------------------|
|--------------|----------------------------------|------------------|------------------|----------------------|



To  
DitchX\_31dbe6d3-3bb8-4160-9800-888573b26841\_20201203\_172305\_156.jpg, 00:00:00, 0.00 m  
Start node type, manhole, reference number: SMH 1, Start



To  
DitchX\_5ea67012-d678-4382-9ce1-a0c4c29ff017\_20201203\_172533\_371.jpg, 00:00:44, 6.36 m  
Finish node type, outfall, reference number: To Ditch, Finish at Ditch



## Section Inspection - 03/12/2020 - SMH 1X

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 2              | 1          | 03/12/20           | 17:25 | Not Specified    | Rain          | Yes               | SMH 1X         |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |                                  |                              |            |                               |        |
|----------------------------|----------------------------------|------------------------------|------------|-------------------------------|--------|
| <b>Town or Village:</b>    | Slindon                          | <b>Inspection Direction:</b> | Downstream | <b>Upstream Node:</b>         | SMH 1  |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill | <b>Inspected Length:</b>     | 1.20 m     | <b>Upstream Pipe Depth:</b>   |        |
| <b>Location:</b>           | Road                             | <b>Total Length:</b>         | 1.20 m     | <b>Downstream Node:</b>       | POND   |
| <b>Surface Type:</b>       | Asphalt Highway                  | <b>Joint Length:</b>         | 0.00 m     | <b>Downstream Pipe Depth:</b> |        |
| <b>Use:</b>                | Surface water                    | <b>Pipe Shape:</b>           | Circular   |                               |        |
| <b>Type of Pipe:</b>       | Gravity drain/sewer              | <b>Dia/Height:</b>           | 225 mm     | <b>Width:</b>                 | 225 mm |
| <b>Year Constructed:</b>   |                                  | <b>Material:</b>             | Concrete   |                               |        |
| <b>Flow Control:</b>       | No flow control                  | <b>Lining Type:</b>          | No Lining  |                               |        |
| <b>Inspection Purpose:</b> | Investigation of known defects   | <b>Lining Material:</b>      | No Lining  |                               |        |

### Comments:

### Recommendations:

| Scale: | 1:50 | Position [m] | Code | Observation   | MPEG     | Photo                          | Grade |
|--------|------|--------------|------|---|----------|--------------------------------|-------|
|        |      |              |      |   |          |                                |       |
|        |      | 0.00         | CP   | Start node type, catchpit, reference number: SMH 1: Start         | 00:00:00 | SMH<br>1X_84dfb9<br>24-4d81-4  |       |
|        |      | 0.80         | RMJ  | Roots, mass at joint, 5% cross-sectional area loss                | 00:00:20 | SMH<br>1X_c17edd<br>41-0b1a-4  | 3     |
|        |      | 1.20         | OFF  | Finish node type, outfall, reference number: Pond: Finish at Pond | 00:00:41 | SMH<br>1X_eda18b<br>f8-67cc-48 |       |

### 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      | 5.0      | 4.0       | 5.0       |



## Section Pictures - 03/12/2020 - SMH 1X

| Section | Inspection Direction | PLR    | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|--------|------------------|----------------------|
| 2       | Downstream           | SMH 1X |                  |                      |



SMH

1X\_84dfb924-4d81-4c2d-877a-f689c991657f\_20201203\_17300  
3\_796.jpg, 00:00:00, 0.00 m

Start node type, catchpit, reference number: SMH 1, Start



SMH

1X\_c17edd41-0b1a-4087-b8d9-ff70b5bb1a1c\_20201203\_1729  
00\_625.jpg, 00:00:20, 0.80 m

Roots, mass at joint, 5% cross-sectional area loss



SMH

1X\_edaf8b8-67cc-48b8-8b1a-cafef0510865\_20201203\_17295  
5\_835.jpg, 00:00:41, 1.20 m

Finish node type, outfall, reference number: Pond, Finish at  
Pond

## Section Inspection - 03/12/2020 - Overflow 1X

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 3              | 1          | 03/12/20           | 17:30 | Not Specified    | Rain          | Yes               | OVERFLOW 1X    |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |   |                              |                |                               |            |
|----------------------------|---|------------------------------|----------------|-------------------------------|------------|
| <b>Town or Village:</b>    | Slindon                                       | <b>Inspection Direction:</b> | Downstream     | <b>Upstream Node:</b>         | OVERFLOW 1 |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill              | <b>Inspected Length:</b>     | 1.94 m         | <b>Upstream Pipe Depth:</b>   |            |
| <b>Location:</b>           | Road  | <b>Total Length:</b>         | 5.00 m         | <b>Downstream Node:</b>       | DOWNSTREAM |
| <b>Surface Type:</b>       | Asphalt Highway                               | <b>Joint Length:</b>         | 0.00 m         | <b>Downstream Pipe Depth:</b> |            |
| <b>Use:</b>                | Surface water                                 | <b>Pipe Shape:</b>           | Circular       |                               |            |
| <b>Type of Pipe:</b>       | Gravity drain/sewer                           | <b>Dia/Height:</b>           | 225 mm         | <b>Width:</b>                 | 225 mm     |
| <b>Year Constructed:</b>   |   | <b>Material:</b>             | Vitrified clay |                               |            |
| <b>Flow Control:</b>       | No flow control                               | <b>Lining Type:</b>          | No Lining      |                               |            |
| <b>Inspection Purpose:</b> | Investigation of known defects                | <b>Lining Material:</b>      | No Lining      |                               |            |
| <b>Comments:</b>           | Overflow from CP 1 to downstream pond outfall |                              |                |                               |            |
| <b>Recommendations:</b>    |   |                              |                |                               |            |

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



| 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                                  | 20.0     | 10.4     | 20.0      | 5.0       |

## Section Pictures - 03/12/2020 - Overflow 1X

| Section | Inspection Direction | PLR         | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|-------------|------------------|----------------------|
| 3       | Downstream           | OVERFLOW 1X |                  |                      |



Overflow

1X\_bc5bd890-02cf-4ef9-8c54-76a8d40f56e4\_20201203\_173436\_005.jpg, 00:00:35, 1.93 m

Roots, mass, 100% cross-sectional area loss, Root Mass on 90 Degree bend beneath path, also large hole in pipe caused by ingress

## Section Inspection - 03/12/2020 - Catchpit 1X

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 4              | 1          | 03/12/20           | 17:35 | Not Specified    | Rain          | Yes               | CATCHPIT 1X    |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |                                  |                              |                |                               |            |
|----------------------------|----------------------------------|------------------------------|----------------|-------------------------------|------------|
| <b>Town or Village:</b>    | Slindon                          | <b>Inspection Direction:</b> | Upstream       | <b>Upstream Node:</b>         | CATCHPIT 1 |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill | <b>Inspected Length:</b>     | 1.45 m         | <b>Upstream Pipe Depth:</b>   |            |
| <b>Location:</b>           | Road                             | <b>Total Length:</b>         | 5.00 m         | <b>Downstream Node:</b>       | POND OVRFL |
| <b>Surface Type:</b>       | Asphalt Highway                  | <b>Joint Length:</b>         | 0.00 m         | <b>Downstream Pipe Depth:</b> |            |
| <b>Use:</b>                | Surface water                    | <b>Pipe Shape:</b>           | Circular       |                               |            |
| <b>Type of Pipe:</b>       | Gravity drain/sewer              | <b>Dia/Height:</b>           | 225 mm         | <b>Width:</b>                 | 225 mm     |
| <b>Year Constructed:</b>   |                                  | <b>Material:</b>             | Vitrified clay |                               |            |
| <b>Flow Control:</b>       | No flow control                  | <b>Lining Type:</b>          | No Lining      |                               |            |
| <b>Inspection Purpose:</b> | Investigation of known defects   | <b>Lining Material:</b>      | No Lining      |                               |            |

### Comments:

### Recommendations:

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

Depth: m  
Pond Ovrfl



0.00

OF

Start node type, outfall, reference number: Pond Overflow from bank: Start

00:00:00

0.00

S01

RM

Roots, mass, 50% cross-sectional area loss, start

00:00:02

Catchpit  
1X\_e8a8d9  
8b-812a-4

5

1.44

H

Hole in drain or sewer from 12 o'clock to 11 o'clock: Root mass on 90 degree bend Pipe missing (requires excavation)

00:00:35

Catchpit  
1X\_3baff8  
c0-3865-4

5

1.45

SA

Survey abandoned: Unable to remove root mass and traverse any further

00:00:35

5.00

End of pipe

Catchpit 1  
Depth: m

### Construction Features

### Miscellaneous Features

#### Structural Defects

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 1           | 165.0    | 0.0      | 165.0     | 5.0       | 1           | 0.0      | 0.0      | 15.0      | 1.0       |



## Section Pictures - 03/12/2020 - Catchpit 1X

| Section | Inspection Direction | PLR         | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|-------------|------------------|----------------------|
| 4       | Upstream             | CATCHPIT 1X |                  |                      |



Catchpit

1X\_e8a8d98b-812a-44c2-bd41-f2a270ab358d\_20201203\_173845\_878.jpg, 00:00:02, 0.00 m

Roots, mass, 50% cross-sectional area loss, start



Catchpit

1X\_3baff8c0-3865-47ec-9a6a-719f03c192f2\_20201203\_174024\_380.jpg, 00:00:35, 1.44 m

Hole in drain or sewer from 12 o'clock to 11 o'clock, Root mass on 90 degree bend Pipe missing (requires excavation)

## Section Inspection - 03/12/2020 - Gully 1X

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 5              | 1          | 03/12/20           | 17:41 | Not Specified    | Rain          | Yes               | GULLY 1X       |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |                                  |                              |           |                               |            |
|----------------------------|----------------------------------|------------------------------|-----------|-------------------------------|------------|
| <b>Town or Village:</b>    | Slindon                          | <b>Inspection Direction:</b> | Upstream  | <b>Upstream Node:</b>         | GULLY 1    |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill | <b>Inspected Length:</b>     | 2.70 m    | <b>Upstream Pipe Depth:</b>   |            |
| <b>Location:</b>           | Road                             | <b>Total Length:</b>         | 2.70 m    | <b>Downstream Node:</b>       | CATCHPIT 1 |
| <b>Surface Type:</b>       | Asphalt Highway                  | <b>Joint Length:</b>         | 0.00 m    | <b>Downstream Pipe Depth:</b> |            |
| <b>Use:</b>                | Surface water                    | <b>Pipe Shape:</b>           | Circular  |                               |            |
| <b>Type of Pipe:</b>       | Gravity drain/sewer              | <b>Dia/Height:</b>           | 150 mm    |                               |            |
| <b>Year Constructed:</b>   |                                  | <b>Material:</b>             | Concrete  |                               |            |
| <b>Flow Control:</b>       | No flow control                  | <b>Lining Type:</b>          | No Lining |                               |            |
| <b>Inspection Purpose:</b> | Investigation of known defects   | <b>Lining Material:</b>      | No Lining |                               |            |

### Comments:

### Recommendations:

| Scale: | 1:50 | Position [m] | Code | Observation  | MPEG     | Photo                            | Grade |
|--------|------|--------------|------|--|----------|----------------------------------|-------|
|        |      |              |      |  |          |                                  |       |
|        |      | 0.00         | CP   | Start node type, catchpit, reference number: Catchpit 1: Start                     | 00:00:00 | Gully<br>1X_cd8b3<br>5ae-9b95-   |       |
|        |      | 0.30         | RTJ  | Roots, tap at joint  | 00:00:19 | Gully<br>1X_ed6d2<br>9a1-1dd0-   | 4     |
|        |      | 1.47         | RFJ  | Roots, fine at joint   | 00:00:30 | Gully<br>1X_68019f<br>43-8102-4f | 2     |
|        |      | 2.44         | CM   | Cracks, multiple from 12 o'clock to 11 o'clock                                     | 00:00:38 | Gully<br>1X_6f9088<br>f9-0f72-4b | 3 / 2 |
|        |      | 2.70         | GYF  | Finish node type, gully, reference number: Gully 1: Finish at Gully 1(Now Flowing) | 00:00:43 | Gully<br>1X_f6b20c<br>8d-1076-4  |       |

### Construction Features

### Miscellaneous Features

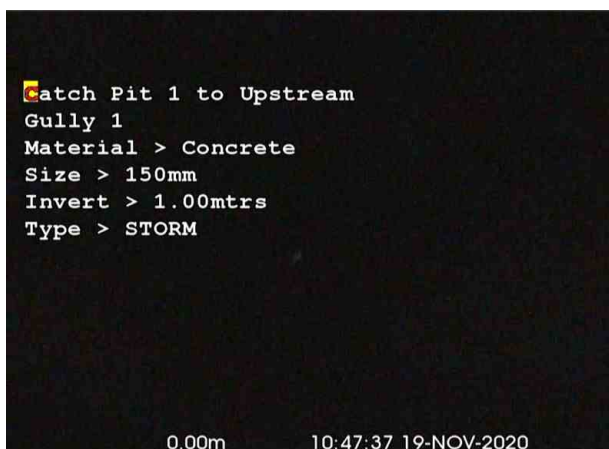
#### Structural Defects

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 1           | 40.0     | 0.0      | 40.0      | 3.0       | 3           | 5.0      | 0.0      | 7.0       | 4.0       |

## Section Pictures - 03/12/2020 - Gully 1X

| Section | Inspection Direction | PLR      | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|----------|------------------|----------------------|
| 5       | Upstream             | GULLY 1X |                  |                      |



Gully  
1X\_cd8b35ae-9b95-4b1b-b4b4-44127aed6d25\_20201203\_1742  
24\_589.jpg, 00:00:00, 0.00 m  
Start node type, catchpit, reference number: Catchpit 1, Start



Gully  
1X\_ed6d29a1-1dd0-49ec-9eb4-5e931f84b941\_20201203\_1743  
19\_723.jpg, 00:00:19, 0.30 m  
Roots, tap at joint



Gully  
1X\_68019f43-8102-4f49-8fb5-05148a9f3052\_20201203\_17435  
7\_501.jpg, 00:00:30, 1.47 m  
Roots, fine at joint



Gully  
1X\_6f9088f9-0f72-4b65-b413-84591f1a3f42\_20201203\_174447  
\_210.jpg, 00:00:38, 2.44 m  
Cracks, multiple from 12 o'clock to 11 o'clock

## Section Pictures - 03/12/2020 - Gully 1X

| Section | Inspection Direction | PLR      | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|----------|------------------|----------------------|
| 5       | Upstream             | GULLY 1X |                  |                      |



Gully

1X\_f6b20c8d-1076-48cd-a579-659ab5facb3b\_20201203\_1745  
39\_330.jpg, 00:00:43, 2.70 m

Finish node type, gully, reference number: Gully 1, Finish at  
Gully 1 (Now Flowing)



## Section Inspection - 03/12/2020 - Gully 2X

|                            |                 |                               |               |                                   |                                |                                   |                                 |
|----------------------------|-----------------|-------------------------------|---------------|-----------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| Section<br>6               | Inspection<br>1 | Date<br>03/12/20              | Time<br>17:45 | Client's Job Ref<br>Not Specified | Weather<br>Rain                | Pre Cleaned<br>Yes                | PLR<br>GULLY 2X                 |
| Operator<br>Peter G Wilson |                 | Vehicle<br>TANKER & CCTV UNIT |               | Camera<br>Mini Cam                | Preset Length<br>Not Specified | Legal Status<br>Highways Drainage | Alternative ID<br>Not Specified |

|                     |                                  |                       |           |                        |            |
|---------------------|----------------------------------|-----------------------|-----------|------------------------|------------|
| Town or Village:    | Slindon                          | Inspection Direction: | Upstream  | Upstream Node:         | GULLY 2    |
| Road:               | Slindon Pond Scheme, Church Hill | Inspected Length:     | 3.75 m    | Upstream Pipe Depth:   |            |
| Location:           | Road                             | Total Length:         | 3.75 m    | Downstream Node:       | CATCHPIT 1 |
| Surface Type:       | Asphalt Highway                  | Joint Length:         | 0.00 m    | Downstream Pipe Depth: |            |
| Use:                | Surface water                    | Pipe Shape:           | Circular  |                        |            |
| Type of Pipe:       | Gravity drain/sewer              | Dia/Height:           | 150 mm    | Width:                 | 150 mm     |
| Year Constructed:   |                                  | Material:             | Concrete  |                        |            |
| Flow Control:       | No flow control                  | Lining Type:          | No Lining |                        |            |
| Inspection Purpose: | Investigation of known defects   | Lining Material:      | No Lining |                        |            |

### Comments:

### Recommendations:

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

Depth: m  
Catchpit 1



0.00

CP

Start node type, catchpit, reference number: Catchpit 1: Start

00:00:00

0.50

RMJ

Roots, mass at joint, 5% cross-sectional area loss: Now removed

00:00:17

Gully  
2X\_bba62c  
1f-a713-41

3

2.54

RMJ

Roots, mass at joint, 5% cross-sectional area loss: Now removed

00:00:32

Gully  
2X\_b076cf  
48-2acd-4

3

3.75

GYF

Finish node type, gully, reference number: Gully 2: Finish at Gully 2 (Now Flowing)

00:00:41

Gully  
2X\_751b3  
6d9-e64d-

Gully 2

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       | 2           | 4.0      | 16.0     | 8.0       | 5.0       |

## Section Pictures - 03/12/2020 - Gully 2X

| Section | Inspection Direction | PLR      | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|----------|------------------|----------------------|
| 6       | Upstream             | GULLY 2X |                  |                      |



Gully

2X\_bba62c1f-a713-419b-be39-37a623986f26\_20201203\_174754\_932.jpg, 00:00:17, 0.50 m

Roots, mass at joint, 5% cross-sectional area loss, Now removed



Gully

2X\_b076cf48-2acd-4897-a2ee-b98f75ed7aee\_20201203\_174842\_034.jpg, 00:00:32, 2.54 m

Roots, mass at joint, 5% cross-sectional area loss, Now removed



Gully

2X\_751b36d9-e64d-4bab-a57e-4a79ee75b865\_20201203\_175828\_834.jpg, 00:00:41, 3.75 m

Finish node type, gully, reference number: Gully 2, Finish at Gully 2 (Now Flowing)

## Section Inspection - 03/12/2020 - Catchpit 2X

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 7              | 1          | 03/12/20           | 17:58 | Not Specified    | Rain          | Yes               | CATCHPIT 2X    |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |                                  |                              |               |                               |            |
|----------------------------|----------------------------------|------------------------------|---------------|-------------------------------|------------|
| <b>Town or Village:</b>    | Slindon                          | <b>Inspection Direction:</b> | Downstream    | <b>Upstream Node:</b>         | CATCHPIT 2 |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill | <b>Inspected Length:</b>     | 9.06 m        | <b>Upstream Pipe Depth:</b>   |            |
| <b>Location:</b>           | Road                             | <b>Total Length:</b>         | 9.06 m        | <b>Downstream Node:</b>       | POND       |
| <b>Surface Type:</b>       | Asphalt Highway                  | <b>Joint Length:</b>         | 0.00 m        | <b>Downstream Pipe Depth:</b> |            |
| <b>Use:</b>                | Surface water                    | <b>Pipe Shape:</b>           | Circular      |                               |            |
| <b>Type of Pipe:</b>       | Gravity drain/sewer              | <b>Dia/Height:</b>           | 225 mm        | <b>Width:</b>                 | 225 mm     |
| <b>Year Constructed:</b>   |                                  | <b>Material:</b>             | Polypropylene |                               |            |
| <b>Flow Control:</b>       | No flow control                  | <b>Lining Type:</b>          | No Lining     |                               |            |
| <b>Inspection Purpose:</b> | Investigation of known defects   | <b>Lining Material:</b>      | No Lining     |                               |            |

### Comments:

### Recommendations:

| Scale: 1:79   | Position [m] | Code | Observation | MPEG | Photo | Grade |
|---|--------------|------|-------------|------|-------|-------|
| <div> <div>Depth: m</div> <div>Catchpit 2</div> <div> <div>0.00</div> <div>1.00</div> <div>6.06</div> <div>6.46</div> <div>7.14</div> <div>9.06</div> </div> <div> <div>CP</div> <div>MCCO</div> <div>JDM</div> <div>RFJ</div> <div>RFJ</div> <div>OFF</div> </div> <div> <div>Start node type, catchpit, reference number: Catchpit 2: Start</div> <div>Pipe material changes to concrete at this point: Start</div> <div>Joint displaced, medium</div> <div>Roots, fine at joint: Now removed</div> <div>Roots, fine at joint: now removed at 3 O'clock</div> <div>Finish node type, outfall, reference number: Pond: Finish at Pond, Channel needs excavating to improve flow</div> </div> <div> <div>00:00:00</div> <div>00:00:21</div> <div>00:00:39</div> <div>00:00:41</div> <div>00:00:47</div> <div>00:00:54</div> </div> <div> <div>Catchpit 2X_18c35 186-9409-</div> <div>Catchpit 2X_937fe9 37-31ba-4</div> <div>Catchpit 2X_1e6a15 b3-8ea3-4a</div> <div>Catchpit 2X_2cf8d5 a5-e07e-4f</div> <div>Catchpit 2X_38fb07 59-846c-4</div> </div> <div> <div>1 / 3</div> <div>2</div> <div>2</div> </div> </div> |              |      |             |      |       |       |
| <div> <div>Pond</div> <div>Depth: m</div> </div>  |              |      |             |      |       |       |

### Construction Features

### Miscellaneous Features

#### Structural Defects

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 1           | 1.0      | 0.0      | 1.0       | 1.0       | 3           | 2.0      | 0.0      | 4.0       | 3.0       |

## Section Pictures - 03/12/2020 - Catchpit 2X

| Section | Inspection Direction | PLR         | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|-------------|------------------|----------------------|
| 7       | Downstream           | CATCHPIT 2X |                  |                      |



Catchpit  
2X\_18c35186-9409-4687-8fb7-0d47c7fa4017\_20201203\_180035\_320.jpg, 00:00:00, 0.00 m  
Start node type, catchpit, reference number: Catchpit 2, Start



Catchpit  
2X\_937fe937-31ba-4b3a-92a4-ace65b85a166\_20201203\_180129\_645.jpg, 00:00:21, 1.00 m  
Pipe material changes to concrete at this point, Start



Catchpit  
2X\_1e6a15b3-8ea3-4a8e-96c8-98d016f0abf8\_20201203\_180240\_433.jpg, 00:00:39, 6.06 m  
Joint displaced, medium



Catchpit  
2X\_2cf8d5a5-e07e-4fe9-9636-ab1e75c9ffee\_20201203\_180311\_721.jpg, 00:00:41, 6.46 m  
Roots, fine at joint, Now removed



## Section Pictures - 03/12/2020 - Catchpit 2X

| Section | Inspection Direction | PLR         | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|-------------|------------------|----------------------|
| 7       | Downstream           | CATCHPIT 2X |                  |                      |



Catchpit  
 2X\_38fb0759-846c-4933-9cb6-24df7fa9f903\_20201203\_18041  
 8\_101.jpg, 00:00:47, 7.14 m  
 Roots, fine at joint, now removed at 3 O'clock

## Section Inspection - 03/12/2020 - Gully 3X

| Section        | Inspection | Date               | Time  | Client's Job Ref | Weather       | Pre Cleaned       | PLR            |
|----------------|------------|--------------------|-------|------------------|---------------|-------------------|----------------|
| 8              | 1          | 03/12/20           | 18:05 | Not Specified    | Rain          | Yes               | GULLY 3X       |
| Operator       |            | Vehicle            |       | Camera           | Preset Length | Legal Status      | Alternative ID |
| Peter G Wilson |            | TANKER & CCTV UNIT |       | Mini Cam         | Not Specified | Highways Drainage | Not Specified  |

|                            |                                  |                              |                |                               |         |
|----------------------------|----------------------------------|------------------------------|----------------|-------------------------------|---------|
| <b>Town or Village:</b>    | Slindon                          | <b>Inspection Direction:</b> | Upstream       | <b>Upstream Node:</b>         | GULLY 3 |
| <b>Road:</b>               | Slindon Pond Scheme, Church Hill | <b>Inspected Length:</b>     | 25.30 m        | <b>Upstream Pipe Depth:</b>   |         |
| <b>Location:</b>           | Road                             | <b>Total Length:</b>         | 25.30 m        | <b>Downstream Node:</b>       | DITCH   |
| <b>Surface Type:</b>       | Verge                            | <b>Joint Length:</b>         | 0.00 m         | <b>Downstream Pipe Depth:</b> |         |
| <b>Use:</b>                | Surface water                    | <b>Pipe Shape:</b>           | Circular       |                               |         |
| <b>Type of Pipe:</b>       | Gravity drain/sewer              | <b>Dia/Height:</b>           | 225 mm         | <b>Width:</b>                 | 225 mm  |
| <b>Year Constructed:</b>   |                                  | <b>Material:</b>             | Vitrified clay |                               |         |
| <b>Flow Control:</b>       | No flow control                  | <b>Lining Type:</b>          | No Lining      |                               |         |
| <b>Inspection Purpose:</b> | Investigation of known defects   | <b>Lining Material:</b>      | No Lining      |                               |         |

### Comments:

### Recommendations:

| Scale:   | 1:220 | Position [m] | Code    | Observation   | MPEG     | Photo                     | Grade |
|--|-------|--------------|---------|---|----------|---------------------------|-------|
| <div> <div>Depth: m</div> <div>Ditch</div> <div>0.00</div> <div>0.30</div> <div>4.50</div> <div>12.60</div> <div>25.30</div> <div>Gully 3</div> <div>Depth: m</div> </div> |       |              |         |   |          |                           |       |
|  |       | 0.00         | OF      | Start node type, outfall, reference number: Ditch: Start                  | 00:00:00 | Gully 3X_8e46e3 2b-5771-4 |       |
|  |       | 0.30         | OJL     | Open joint, large: Connection to new Plastic Pipework beneath butress     | 00:00:21 | Gully 3X_15301 99e-b30a-  | 1     |
|  |       | 4.50         | S01 CUW | Loss of vision, camera under water, start: Minimal backfall(against Flow) | 00:00:46 |                           |       |
|  |       | 12.60        | WL      | Water level, 0% of the vertical dimension: Minimal backfall ends          | 00:01:05 | Gully 3X_b17bd 446-7536-  |       |
|  |       | 25.30        | GYF     | Finish node type, gully, reference number: Gully 3: Finish at Gully 3     | 00:02:03 | Gully 3X_04166 9d1-2548-  |       |

### Construction Features

### Miscellaneous Features

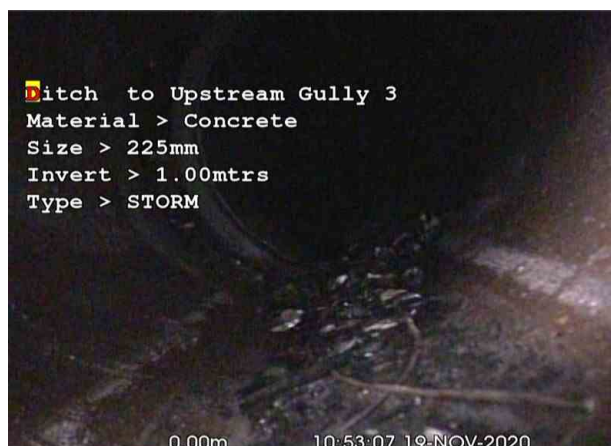
#### Structural Defects

#### Service & Operational Observations

| STR No. Def | STR Peak | STR Mean | STR Total | STR Grade | SER No. Def | SER Peak | SER Mean | SER Total | SER Grade |
|-------------|----------|----------|-----------|-----------|-------------|----------|----------|-----------|-----------|
| 1           | 2.0      | 0.0      | 2.0       | 1.0       | 0           | 0.0      | 0.0      | 0.0       | 1.0       |

## Section Pictures - 03/12/2020 - Gully 3X

| Section | Inspection Direction | PLR      | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|----------|------------------|----------------------|
| 8       | Upstream             | GULLY 3X |                  |                      |



Gully  
3X\_8e46e32b-5771-426a-99e8-3cdcfa6844b2\_20201203\_1807  
00\_686.jpg, 00:00:00, 0.00 m  
Start node type, outfall, reference number: Ditch, Start



Gully  
3X\_1530199e-b30a-4493-a99d-c0d4d4a7e54d\_20201203\_1808  
04\_848.jpg, 00:00:21, 0.30 m  
Open joint, large, Connection to new Plastic Pipework beneath  
butress



Gully  
3X\_b17bd446-7536-4938-b64c-62b819c0ced1\_20201203\_181  
008\_685.jpg, 00:01:05, 12.60 m  
Water level, 0% of the vertical dimension, Minimal backfall ends



Gully  
3X\_041669d1-2548-4d0f-94cb-b878dbd7c7b9\_20201203\_1811  
36\_021.jpg, 00:02:03, 25.30 m  
Finish node type, gully, reference number: Gully 3, Finish at  
Gully 3

## Section Inspection - 03/12/2020 - Lateral 1X

|                            |                 |                               |               |                                   |                                |                                   |                                 |
|----------------------------|-----------------|-------------------------------|---------------|-----------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| Section<br>9               | Inspection<br>1 | Date<br>03/12/20              | Time<br>18:11 | Client's Job Ref<br>Not Specified | Weather<br>Rain                | Pre Cleaned<br>Yes                | PLR<br>LATERAL 1X               |
| Operator<br>Peter G Wilson |                 | Vehicle<br>TANKER & CCTV UNIT |               | Camera<br>Mini Cam                | Preset Length<br>Not Specified | Legal Status<br>Highways Drainage | Alternative ID<br>Not Specified |

|                     |                                  |                       |           |                        |           |
|---------------------|----------------------------------|-----------------------|-----------|------------------------|-----------|
| Town or Village:    | Slindon                          | Inspection Direction: | Upstream  | Upstream Node:         | LATERAL 1 |
| Road:               | Slindon Pond Scheme, Church Hill | Inspected Length:     | 10.20 m   | Upstream Pipe Depth:   |           |
| Location:           | Road                             | Total Length:         | 10.20 m   | Downstream Node:       | DITCH     |
| Surface Type:       | Verge                            | Joint Length:         | 0.00 m    | Downstream Pipe Depth: |           |
| Use:                | Surface water                    | Pipe Shape:           | Circular  |                        |           |
| Type of Pipe:       | Gravity drain/sewer              | Dia/Height:           | 150 mm    |                        |           |
| Year Constructed:   |                                  | Material:             | Concrete  |                        |           |
| Flow Control:       | No flow control                  | Lining Type:          | No Lining |                        |           |
| Inspection Purpose: | Investigation of known defects   | Lining Material:      | No Lining |                        |           |

### Comments:

### Recommendations:

| Scale: | 1:89 | Position [m] | Code | Observation   | MPEG     | Photo                       | Grade |
|--------|------|--------------|------|---|----------|-----------------------------|-------|
|        |      |              |      |   |          |                             |       |
|        |      | 0.00         | OF   | Start node type, outfall, reference number: Ditch: Surveyed Backwards due to constantly pulling back debris | 00:00:00 | Lateral 1X_6c39b302-4ba2-   |       |
|        |      | 0.30         | H    | Hole in drain or sewer from 11 o'clock to 1 o'clock   | 00:00:15 | Lateral 1X_608f82ee-0ee9-4c | 4     |
|        |      | 0.83         | RFJ  | Roots, fine at joint  | 00:00:23 | Lateral 1X_734973f3-a229-4  | 2     |
|        |      | 7.20         | FM   | Fractures, multiple from 12 o'clock to 11 o'clock   | 00:00:55 | Lateral 1X_8a2964a9-bf99-4  | 4 / 2 |
|        |      | 7.30         | RMJ  | Roots, mass at joint, 5% cross-sectional area loss  | 00:00:59 | Lateral 1X_714e6d18-816b-   | 3     |
|        |      | 8.14         | HJ   | Hole in drain or sewer at joint from 12 o'clock to 2 o'clock  | 00:01:03 | Lateral 1X_bc22d3b0-fe0d-4  | 4     |
|        |      | 10.20        | OFF  | Finish node type, outfall, reference number: Lateral 1: Finish back at Ditch                                | 00:01:20 | Lateral 1X_bf4e8b01-9ddf-4e |       |

### 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           | 80.0     | 0.0      | 240.0     | 4.0       | 3           | 5.0      | 0.0      | 6.0       | 4.0       |



## Section Pictures - 03/12/2020 - Lateral 1X

| Section | Inspection Direction | PLR        | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|------------|------------------|----------------------|
| 9       | Upstream             | LATERAL 1X |                  |                      |



Lateral

1X\_6c39b302-4ba2-4131-9f91-e4f9d715c00d\_20201203\_181337\_460.jpg, 00:00:00, 0.00 m

Start node type, outfall, reference number: Ditch, Surveyed Backwards due to constantly pulling back debris



Lateral

1X\_608f82ee-0ee9-4cbb-9065-db8ff4c53fc5\_20201203\_181419\_754.jpg, 00:00:15, 0.30 m

Hole in drain or sewer from 11 o'clock to 1 o'clock



Lateral

1X\_734973f3-a229-4b7e-a1d0-4b0af2a9c874\_20201203\_181447\_739.jpg, 00:00:23, 0.83 m

Roots, fine at joint



Lateral

1X\_8a2964a9-bf99-44ea-baba-25ce7f3b0baa\_20201203\_181540\_865.jpg, 00:00:55, 7.20 m

Fractures, multiple from 12 o'clock to 11 o'clock

## Section Pictures - 03/12/2020 - Lateral 1X

| Section | Inspection Direction | PLR        | Client's Job Ref | Contractor's Job Ref |
|---------|----------------------|------------|------------------|----------------------|
| 9       | Upstream             | LATERAL 1X |                  |                      |



Lateral  
1X\_714e6d18-816b-48bf-acfa-264bb8090927\_20201203\_1816  
06\_828.jpg, 00:00:59, 7.30 m  
Roots, mass at joint, 5% cross-sectional area loss



Lateral  
1X\_bc22d3b0-fe0d-4c96-91e1-d211127420da\_20201203\_1816  
38\_603.jpg, 00:01:03, 8.14 m  
Hole in drain or sewer at joint from 12 o'clock to 2 o'clock



Lateral  
1X\_bf4e8b01-9ddf-4e0b-983c-3207d4c25768\_20201203\_1817  
23\_265.jpg, 00:01:20, 10.20 m  
Finish node type, outfall, reference number: Lateral 1, Finish  
back at Ditch