



PIPESURE
Unit 8/ 103 Kurrajong Ave
Mt Druitt NSW
Tel: 1300 411 811
Fax: 02 9625 9200
Email: info@pipesure.com.au

Project Name

2401 TOTAL SURVEYING SOLUTIONS 24
PENRITH AVE WHEELER HEIGHTS

Date:

24/06/2019

Client:

Total Surveying Solutions

Contract No:

2401

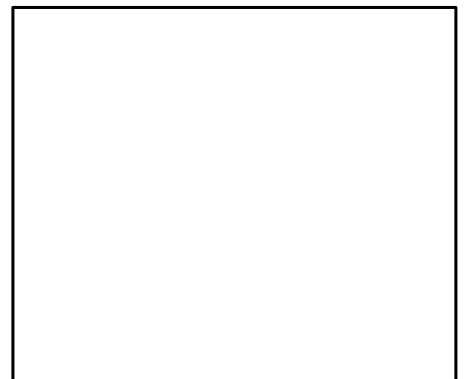
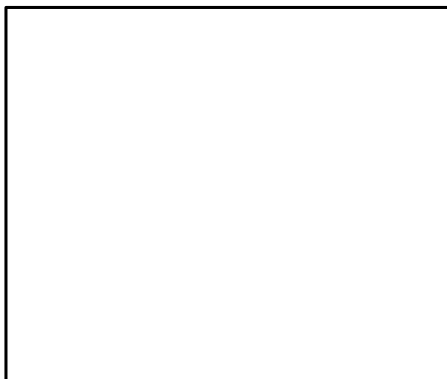


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City :



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/ Main sections

| | | | |
|--|-----------------|--------------|----------------------------|
| Project name 2401 TOTAL SURVEYING SOLUTION | Project Number: | Responsible: | Date: 24/06/2019 |
|--|-----------------|--------------|----------------------------|

| No. | Start MH | End MH | Date | Location/Street | Tape No. | Material | m | (m) |
|-----|----------|--------|------------|-----------------|----------|---------------|-------|-------|
| 1 | SWP B | SWP A | 24/06/2019 | PENRITH AVE | | Concrete pipe | 44.60 | 44.60 |

Pipe size: CIRCULAR 450 = 44.6 m (44.6 m)

All sections = 44.6 m (44.6 m)

Inspection summary

| | | | | |
|---|-----------------|---------------------|----------|--|
| Project Name: 2401 TOTAL SURVEYING SOLUTIONS 24 PENRITH AVE | Project number: | Date: 24/06/2019 | Contact: | |
|---|-----------------|---------------------|----------|--|

Please find per enclosure the inspection report

| | |
|---|---------|
| Total Length of sewer network | 44.60 m |
| Inspected Length of sewer network | 44.60 m |
| Not inspected Length of sewer network | 0.00 m |
| Total Length of house connections (satellite) | 0.00 m |
| Inspected Length of house connections (satellite) | 0.00 m |
| Not inspected Length of house connections (satellite) | 0.00 m |
| Number of Sections | 1 |
| Number of house connections | 0 |
| Number of Photos | 13 |



Inspection Summary

Date:
24/06/2019

Responsible:

Sewer Reference: LINE 1
 Section Numer: 1
 Start node: SWP B
 End node: SWP A

Section length: 44.60 m
 Pipe length:
 Material Concrete pipe
 Shape: Circular

| | | | | | |
|---|--------------|--------------|------|---|-----|
|  | SWP B | 0.00 | STGP | Start node, grated inlet pit, Nodename: SWP B | |
| | | 0.00 | WLT | Water level, turbid or discoloured flow, depth 20% , Start | |
| | | 1.09 | JDR | Joint displaced radially, radial displacement 11-20mm , at 11 o'clock | 5; |
| | | 2.24 | BM | Breaking, some pieces are missing, at joint, length of break 100 , from 12 to 12 o'clock | 60; |
| | | 2.45 | JNGO | Junction open, good workmanship, diameter 100mm , General Comments agg line, at 1 o'clock | |
| | | 12.43 | SS | Spalling of the conduit fabric, localized chipping of one or more of each, at joint , from 12 to 12 o'clock | 20; |
| | | 16.95 | IS | Infiltration, sweating, at joint , from 12 to 12 o'clock | ; 0 |
| | | 18.33 | SS | Spalling of the conduit fabric, localized chipping of one or more of each, at joint , from 12 to 12 o'clock | 20; |
| | | 20.10 | GC | General Comments buried pit | |
| | | 20.18 | GC | General Comments line veers towards neighbouring property | |
| | | 23.47 | IS | Infiltration, sweating, at joint , from 12 to 12 o'clock | ; 0 |
| | | 25.85 | IS | Infiltration, sweating, at joint , from 1 to 6 o'clock | ; 0 |
| | | 28.36 | IS | Infiltration, sweating, at joint , from 12 to 12 o'clock | ; 0 |
| | | 30.68 | IS | Infiltration, sweating, at joint , from 12 to 12 o'clock | ; 0 |
| | | 33.00 | IS | Infiltration, sweating , from 6 to 11 o'clock | ; 0 |
| | | 38.07 | IS | Infiltration, sweating, at joint , from 3 to 10 o'clock | ; 0 |
| | | 40.40 | IS | Infiltration, sweating, at joint , from 12 to 12 o'clock | ; 0 |
| | | 43.06 | IS | Infiltration, sweating, at joint , from 12 to 12 o'clock | ; 0 |
| | | 44.60 | WLT | Water level, turbid or discoloured flow, depth 20% , End | |
|  | SWP A | 44.60 | FHMH | Finish node, maintenance hole, Nodename: SWP A , General Comments buried pit in rear neighbours property | |

Project information

Project name
2401 TOTAL SURVEYING SOLUTION

Project number:

Contact:






















Date :
24/06/2019

Client: **Total Surveying Solutions**
Contact Name: **Mr.**
Department:
Po Box:
Street: **8/448 Pacific Hwy**
City: **Lane Cove**
Telephone: **1300877000**
Fax:
Mobile:
E-mail:

Site: **Total Surveying Solutions**
Contact Name: **Mr. Dave Fischer**
Department:
Po Box:
Street: **24 Penrith Ave**
City: **Wheeler Heights**
Telephone:
Fax:
Mobile: **0458025331**
E-mail:

Contractor **PIPESURE**
Contact Name: **Michael Breed**
Department:
Po Box:
Street: **Unit 8/ 103 Kurrajong Ave**
City: **Mt Druitt NSW**
Telephone: **1300 411 811**
Fax: **02 9625 9200**
Mobile: **0428548281**
E-mail: **info@pipesure.com.au**

Legend of Drawing:

| | | | |
|--|-------------------------|---|--------------------|
|  | WATER FLOW 1 |  | Tree_Winter |
|  | Tree_Summer |  | CESS PIT |
|  | SOAKAWAY: FOUL WATER |  | GNDFLWC |
|  | SURFACE WATER |  | SYPHON INTERCEPTOR |
|  | PETROL INTERCEPTOR |  | PIPE RUN |
|  | RAINWATER PIPE |  | ROAD GULLY |
|  | RODDING EYE |  | SEPTIC TANK |
|  | SOIL & VENT PIPE |  | COMBINED |
|  | SOAKAWAY: SURFACE WATER |  | GULLY |
|  | W.C. |  | PUMP CH |
|  | FOUL WATER | | |

Grade Defect Guide and Recommendations

| | | | |
|--|-----------------|----------|-----------------------------|
| Project Name : 2401 TOTAL SURVEYING SOLUTION | Project number: | Contact: | Date : 24/06/2019 |
|--|-----------------|----------|-----------------------------|

1: These codes describe the physical condition of the sewer and the severity of the damage

STRUCTURAL CONDITION

2: These codes describe the capability of the sewer to meet its service requirements and indicate loss of capacity, potential for blockage and watertightness

SERVICE DEFECTS

3: These codes define features relating to the construction of the sewer

CONSTRUCTIONAL FEATURES

4: These codes define general items concerning the sewer

MISCELLANEOUS FEATURES

5: Collapsed or collapse imminent

Brick Sewers: Already collapsed, Missing Invert, Deformation >10% and fractured, Displaced/hanging brickwork and deformation <10%, Extensive areas of missing brickwork Clayware, concrete and plastic pipe sewers: Already collapsed, Deformation >10% and broken, Extensive areas of fabric missing, Fracture with deformation 10%

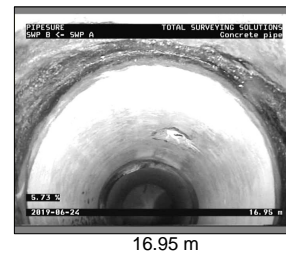
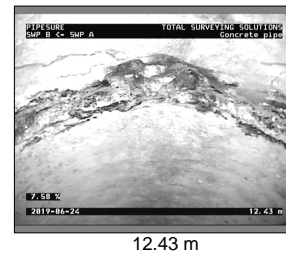
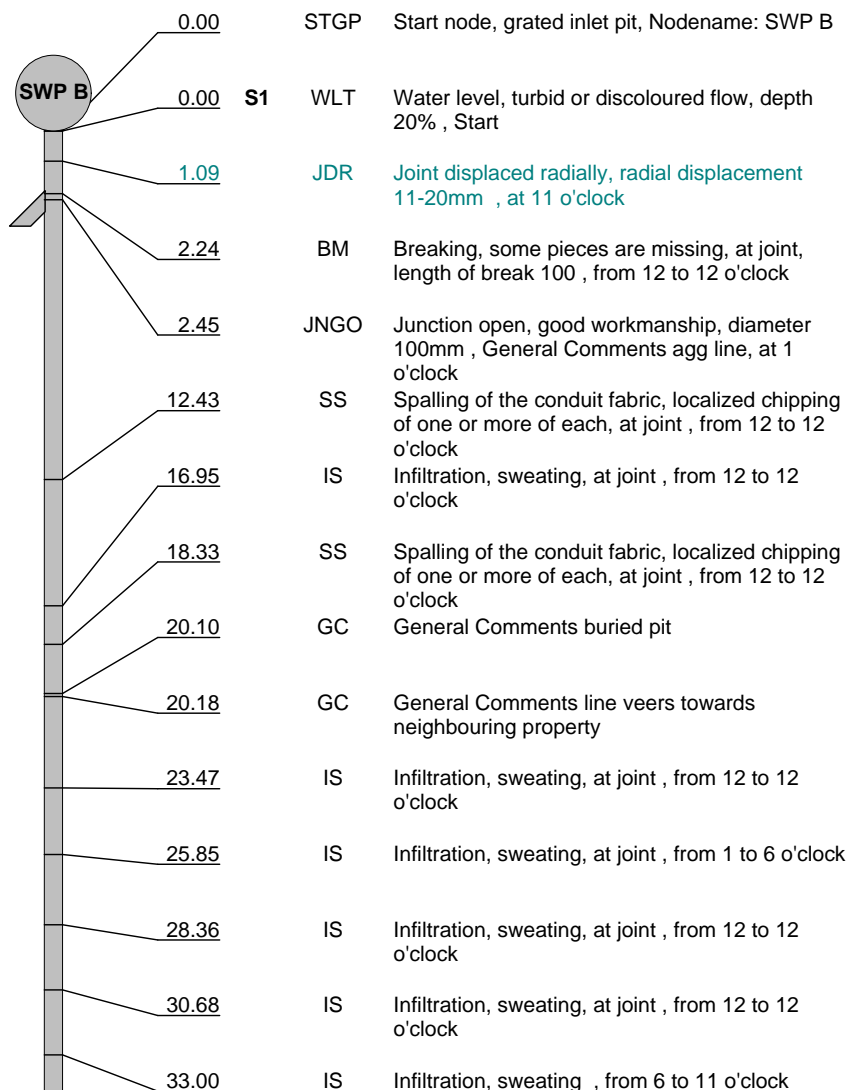
WSA assessment

| | | | | | |
|--|--|--|---------------------------------------|-----------------------------|--|
| Date: 24/06/2019 | Asset owner's job ref.: 2401 | Asset Owner: TOTAL SURVEYING SOL | Operator : TONI STANKOVSKI | Section number: 1 | Pipe Asset Id: LINE 1 |
| Time of inspection: 08:34:05 | Cleaning: not cleaned | Standard: WSA 05-2008 2.2 | LRP Inside Face of the Wall | Conduit Unit Length | Method of Inspection Television Camera |

| | | | | | |
|---|---|---|--|---|---|
| Town: Suburb: Street: Asset Location | WHEELER HEIGHTS PENRITH AVE Light road | Catchment: Asset Owner: Precipitation.: Flow control | TOTAL SURVEYING SOLUTIONS No measures | US MH: Survey Dir: DS MH: Inspect Lenght : | SWP B upstream SWP A 44.60 m |
| Purpose of inspection : | Structural Condition Inspection | | | Shape : | Circular |
| Use of Conduit: | Drain | | | Dia/Height: | 450 mm |
| Type of Conduit: | Storm water drain | | | Lining: | |
| Lining Method: | | | | Pipe Material: | Concrete pipe |

Remarks :

1:270 Position Code Observation Str Rate



City :



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Inspection Report

| | | | | | |
|-----------------------------|-----------------------------|-----------|--------------------------------------|---------------------------------|-----------------|
| Date : 24/06/2019 | Job number : 2401 | Weather : | Operator : TONI STANKOVSKI | Counter : 1 | Pipe Asset Id : |
| Present : | Vehicle : | Camera : | Preset : | Cleaned : not cleaned | Rate : |

1:270

Position

Code

Observation

Str Rate

38.07

IS

Infiltration, sweating, at joint , from 3 to 10 o'clock

40.40

IS

Infiltration, sweating, at joint , from 12 to 12 o'clock

43.06

IS

Infiltration, sweating, at joint , from 12 to 12 o'clock

44.60

E1

WLT

Water level, turbid or discoloured flow, depth 20% , End

44.60

FHMH

Finish node, maintenance hole, Nodename: SWP A , General Comments buried pit in rear neighbours property

STR no def

STR peak

STR mean

STR total

STR grade

SER no def

SER peak

SER mean

SER total

SER grade

4

60

2.35

105

5

9

0

0

0

1

Inspection Pictures

| | | | | |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|
| Location/Street PENRITH AVE | Town or suburb: | Date : 24/06/2019 | Section number: 1 | Sewer Ref.: LINE 1 |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|



Photo: 1_3A, 00:01:02
1.09m, Joint displaced radially, radial displacement 11-20mm ,
at 11 o'clock



Photo: 1_4A, 00:01:39
2.24m, Breaking, some pieces are missing, at joint, length of
break 100 , from 12 to 12 o'clock



Photo: 1_5A, 00:02:05
2.45m, Junction open, good workmanship, diameter 100mm ,
General Comments agg line, at 1 o'clock / agg line



Photo: 1_6A, 00:03:27
12.43m, Spalling of the conduit fabric, localized chipping of one
or more of each, at joint , from 12 to 12 o'clock

Inspection Pictures

| | | | | |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|
| Location/Street PENRITH AVE | Town or suburb: | Date : 24/06/2019 | Section number: 1 | Sewer Ref.: LINE 1 |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|



Photo: 1_7A, 00:04:26
16.95m, Infiltration, sweating, at joint , from 12 to 12 o'clock



Photo: 1_8A, 00:05:27
18.33m, Spalling of the conduit fabric, localized chipping of one or more of each, at joint , from 12 to 12 o'clock



Photo: 1_11A, 00:07:34
23.46m, Infiltration, sweating, at joint , from 12 to 12 o'clock



Photo: 1_12A, 00:08:16
25.85m, Infiltration, sweating, at joint , from 1 to 6 o'clock

Inspection Pictures

| | | | | |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|
| Location/Street PENRITH AVE | Town or suburb: | Date : 24/06/2019 | Section number: 1 | Sewer Ref.: LINE 1 |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|

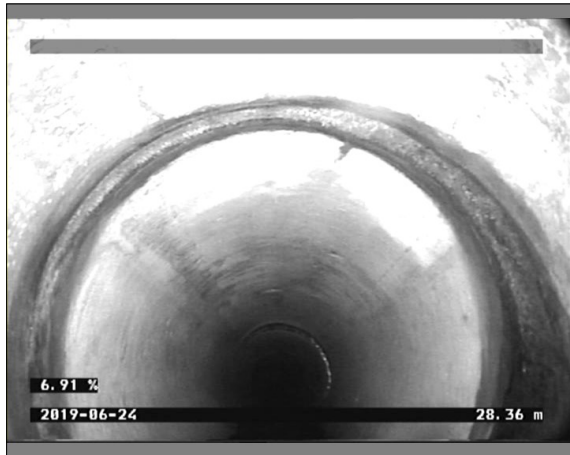


Photo: 1_13A, 00:09:06
28.36m, Infiltration, sweating, at joint , from 12 to 12 o'clock



Photo: 1_14A, 00:09:42
30.68m, Infiltration, sweating, at joint , from 12 to 12 o'clock



Photo: 1_15A, 00:10:08
33m, Infiltration, sweating , from 6 to 11 o'clock

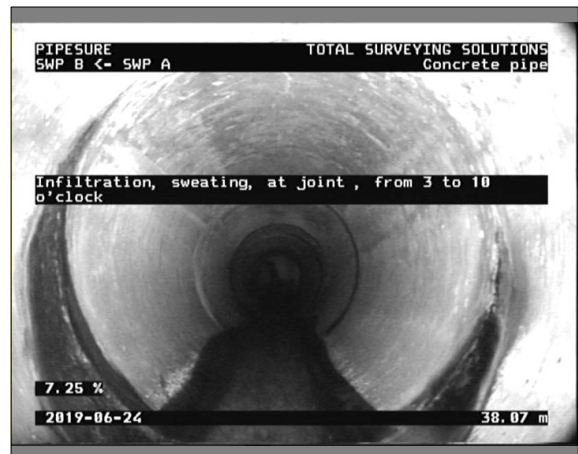


Photo: 1_16A, 00:10:50
38.07m, Infiltration, sweating, at joint , from 3 to 10 o'clock

Inspection Pictures

| | | | | |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|
| Location/Street PENRITH AVE | Town or suburb: | Date : 24/06/2019 | Section number: 1 | Sewer Ref.: LINE 1 |
|---------------------------------------|-----------------|-----------------------------|-----------------------------|------------------------------|

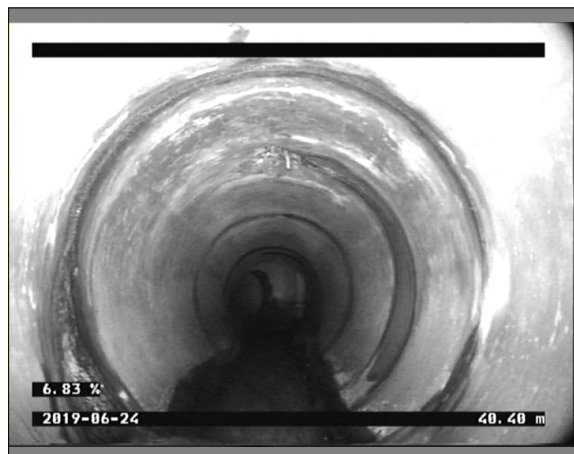


Photo: 1_17A, 00:11:19
40.4m, Infiltration, sweating, at joint , from 12 to 12 o'clock

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

Infiltration, sweating, at joint , from 3 to 10
o'clock

7.25 %

2019-06-24

38.07 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

Infiltration, sweating , from 6 to 11 o'clock

6.78 %

2019-06-24

33.00 m

PIPESURE
SWP B <- SWP A

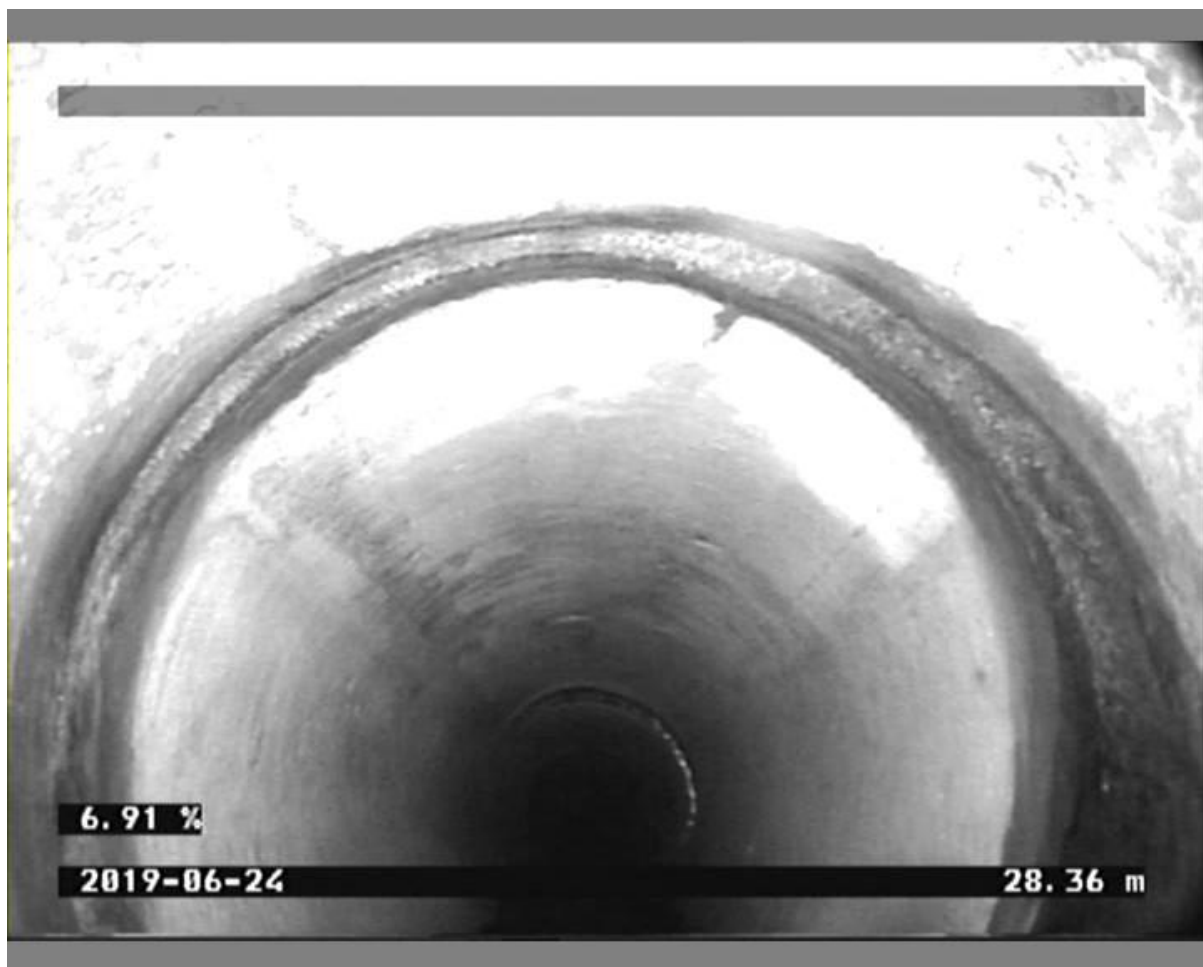
TOTAL SURVEYING SOLUTIONS
Concrete pipe

Infiltration, sweating, at joint , from 12 to 12
o'clock

6.49 %

2019-06-24

30.68 m



PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe



6.09 %

2019-06-24

25.85 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

7.24 %

2019-06-24

23.47 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

6.92 %

2019-06-24

18.33 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

5.73 %

2019-06-24

16.95 m



PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe



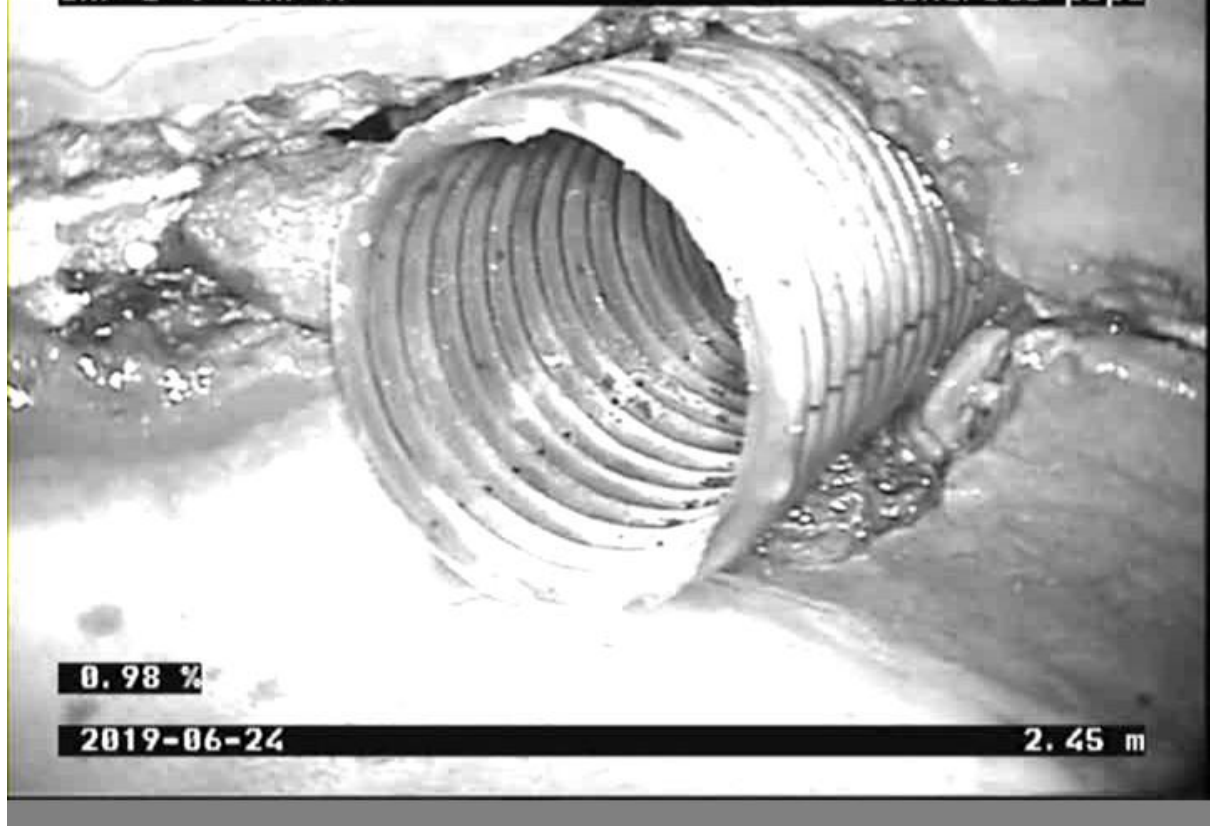
7.58 %

2019-06-24

12.43 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe



0.98 %

2019-06-24

2.45 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

1.06 %

2019-06-24

2.24 m

PIPESURE
SWP B <- SWP A

TOTAL SURVEYING SOLUTIONS
Concrete pipe

-1.81 %

2019-06-24

1.09 m

