ADVANCED PIPE INSPECTION

Pipe Assessment Report

CCTV Inspection report produced on behalf of:
SAMPLE

CCTV Inspection Project Scope

A pressurised CCTV survey was undertaken on a potable water pipeline to confirm internal pipe condition as part of a zonal study investigation scheme. All inspections were undertaken via existing type 2 fire hydrants using PIPA Technology approved for use in potable water mains.

Pressurised Pipe CCTV Internal Inspection Report

Equipment Testing Details:

Calibration and Testing undertaken by:	C Webster

Equipment Information:

System Used:	Hydrocam S	**Visual Check:**	30/10/2022
ID Number:	HCS102	**Sanitised:**	30/10/2022
Purpose Used:	CCTV Survey Potable Water	**Pat Test Date:**	30/09/2022
Pressure Tested:	30/10/2022	**Pat Test Due:**	30/12/2022

Chlorination Details:

Chlorination Mixture:	31/10/2022
Chlorine/Water:	1 part to 1000
Technician Name:	Oliver Whetstone-James

Chlorination of Fittings Details:

Chlorination Tablet:	1 unit
Time held on fittings:	09.28 to 09.33am
Technician Name:	Oliver Whetstone-James

Asset Operation Details:

Time arrival on site:	09.25am
Operation of hydrant:	09.36am
Isolation of hydrant:	09.56am
Time of departure:	10.05am

Pressurised Pipe CCTV Internal Inspection Report

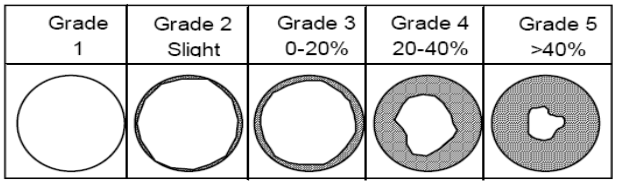
Location:	SAMPLE	**Inspection Date:**	
Client:	SAMPLE		31/10/2022
Client contact:	SAMPLE	**Reference ID**	
API Staff on site:	Oliver Whetstone-James & Joe Hunt		SAMPLE

Pipe Details:

Pipe Material:	CI	**Pipe Coating:**	None
ID (Nominal):	90mm	**Internal Lining:**	PU
Age:	1912	**Reason for Survey:**	Condition assessment
Pressure:	4 Bar	**Distance of Survey:**	10 metres

Condition Grading: *Pipe grading a visual representation only

Hydraulic Grade:	2
Asset Condition:	Average
Depth of riser:	0.4 metres



Supporting Photo information:

Site Location

Camera insertion point hydrant

Pressurised Pipe CCTV Internal Inspection Report

Pressure reading taken on site (actual):

Location Map of Survey:

Pressurised Pipe CCTV Internal Inspection Report

Pressurised CCTV Survey Internal Video Stills and Notes:

Title 1

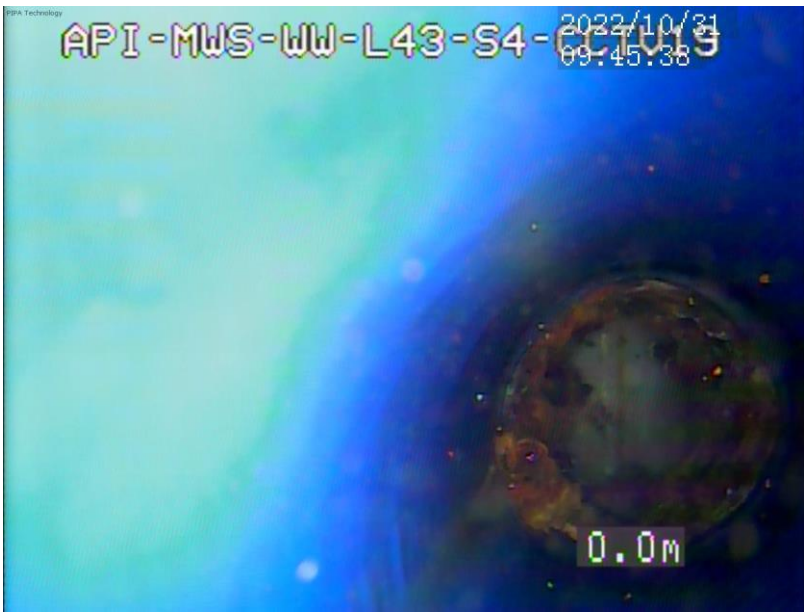


Image at riser

Title 2

Bottom of T-junction heavy tuberculation identified

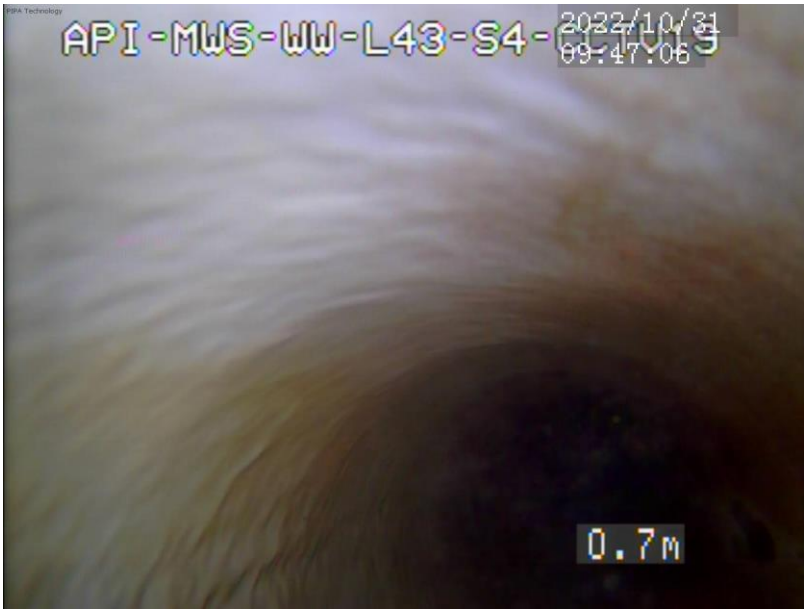
Pressurised Pipe CCTV Internal Inspection Report

Direction 1 with flow

Title 3

Start of survey

Title 4



PU lining identified

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Title 5

Pipeline at 1.5 metres

Title 6

Pipeline wall at 2.1 metres

Pressurised Pipe CCTV Internal Inspection Report

Title 7

PU Lining failing at 2.8 metres

Title 8

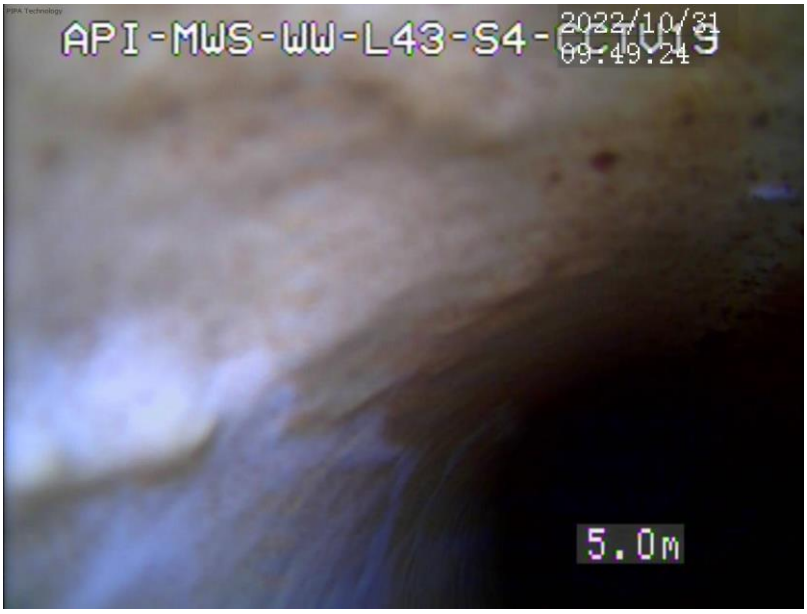
Heavy tuberculation at 3.5 metres

Pressurised Pipe CCTV Internal Inspection Report

Title 9

Sections of PU Lining missing

Title 10



End of survey

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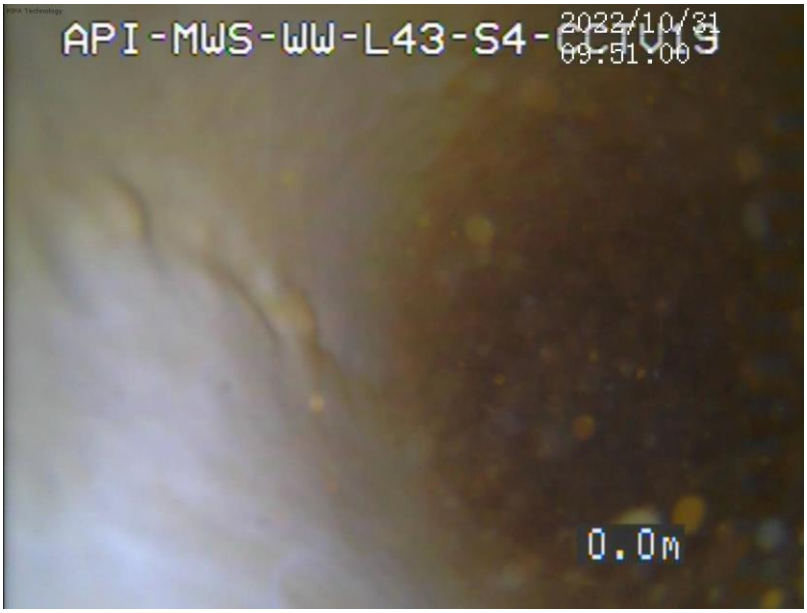
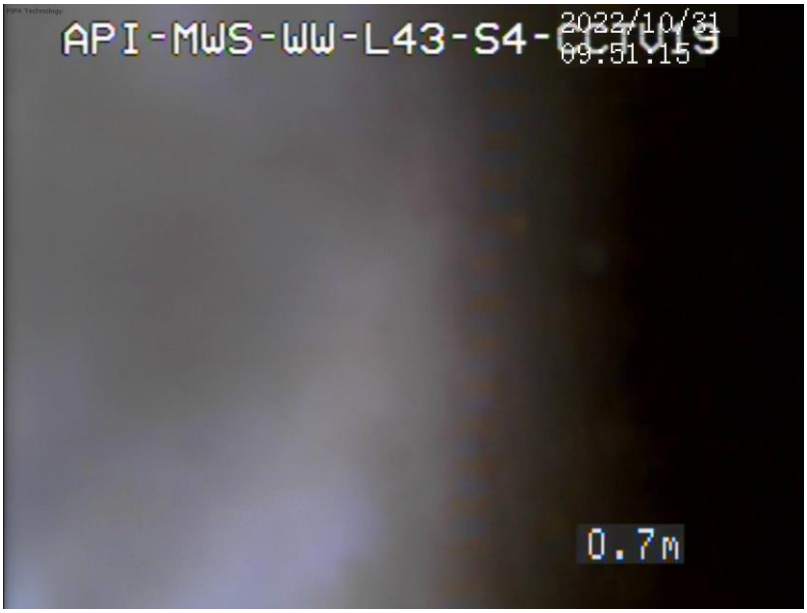
Direction 2 against flow

Title 11



Start of survey

Title 12



Low level of sediment present

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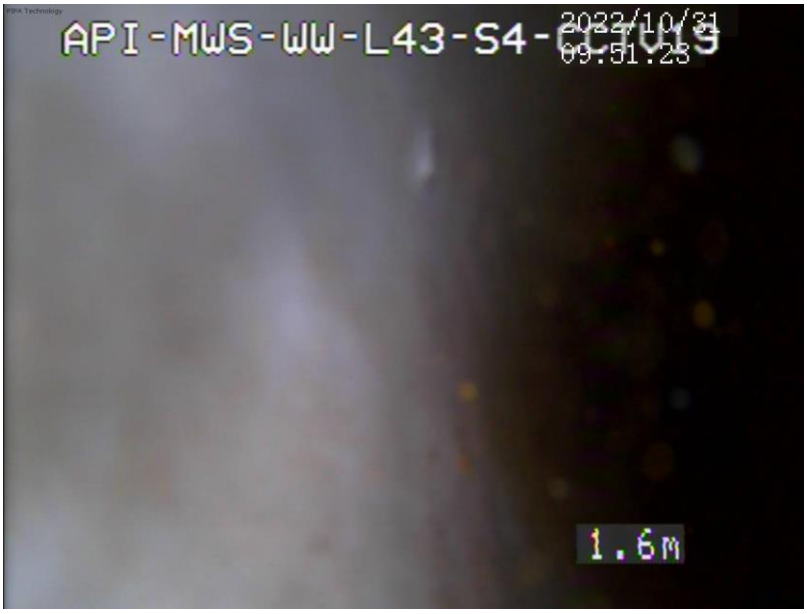
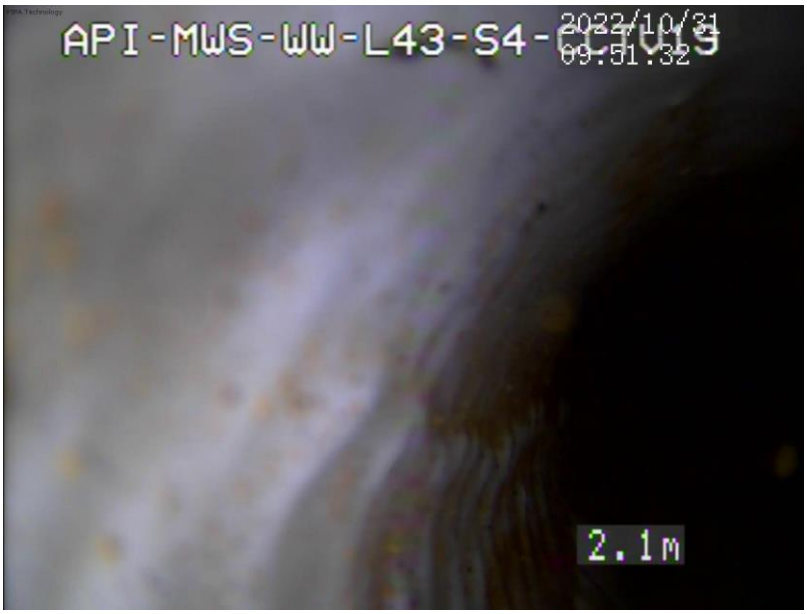
Title 13



PU Ling identified at 1.6 metres

Title 14



Pipeline wall at 2.1 metres

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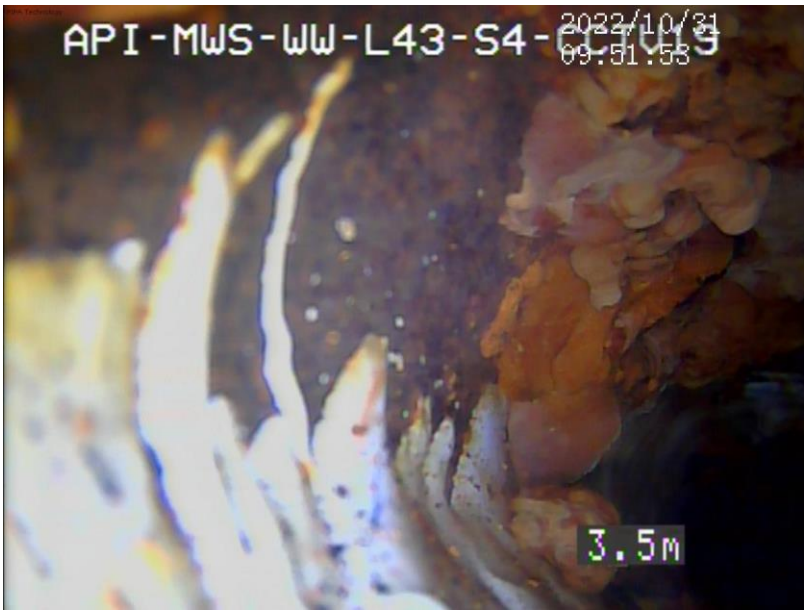
Title 15

Tuberculation forming at 2.8 metres

Title 16



Heavy tuberculation at 3.5 metres

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Title 17

Sections of PU lining missing at 4.2 metres

Title 18

End of survey joint identified

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Inspection comments:

A pressurised CCTV inspection was undertaken on a pipeline to ascertain a condition assessment
Chapter 8 signage and barriers supplied by API
Entry was via a fire hydrant
Entry point was located on a road carriageway
The camera/cable was fully chlorinated during insertion through a chlorine chamber and standpipe configuration

Direction 1 with flow direction

- Medium levels of residual sedimentation identified during survey
- Medium levels of tuberculation identified within the pipeline
- Low levels of debris identified during survey
- Pipeline appears to be in an average condition
- Joints identified at 0.4 metres
- Survey ended at 5 metres due to distance being achieved

Direction 2 against flow direction

- Medium levels of residual sedimentation identified during survey
- Low levels of tuberculation identified within the pipeline
- Low levels of debris identified during survey
- Pipeline appears to be in an average condition
- Survey ended at 5 metres due to distance being achieved

Additional Comments

- GIS states CI with PU Lining & Profuse PE
- CI with PU Lining confirmed
- Profuse PE not present
- Pipeline is recommended for cleaning scheme

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Additional Photos:

Title 1

Image of hydrant bowl condition

Title 2

Image of hydrant cap in situ

Pressurised Pipe CCTV Internal Inspection Report

Additional Photos:

Title 1

Image of site on arrival

Title 2

Image of site on departure

Pressurised Pipe CCTV Internal Inspection Report

RAMS Statement:

All CCTV activities were completed by adhering to RAMS submitted by API on pressurised potable water pipe inspection surveys and no debris has been observed during this process.
All stages of this procedure are recorded using video and photo data and are available on request.

-End of Inspection Report-

Produced By:	Carl Read		
Ref:	CR_001	**Date:**	31/10/2022
Approved By:	Fabio Orlandi		
Ref:	FO_001	**Date:**	4/11/2022

Pressurised Pipe CCTV Internal Inspection Report

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