

**APPENDIX C**  
CCTV Reports





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><b><u>1:</u></b>    <b>Excellent Condition</b></p> <p><b>Minor Defects - Failure unlikely in the foreseeable future</b></p>
<p><b><u>2:</u></b>    <b>Good Condition</b></p> <p><b>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</b></p>
<p><b><u>3:</u></b>    <b>Fair Condition</b></p> <p><b>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</b></p>
<p><b><u>4:</u></b>    <b>Poor Condition</b></p> <p><b>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</b></p>
<p><b><u>5:</u></b>    <b>Immediate Attention</b></p> <p><b>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</b></p>



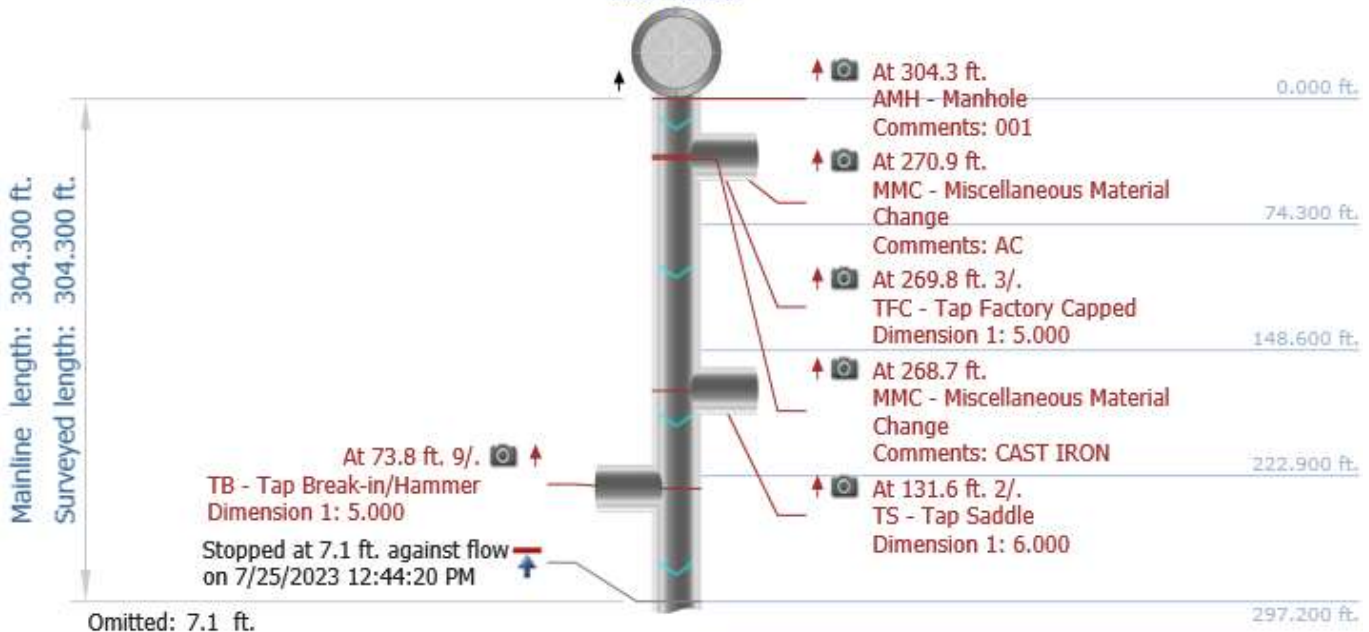
## NWMCC INSPECTION REPORT

Start date/time: <b>20230725 12:13</b>	Weather: <b>Dry - No precipitation during survey</b>	Surveyed by: <b>C.Arruda</b>	Certificate number: <b>U-910-11364</b>	Pipe segment ref.: <b>15/002 - 15/001</b>	
Owner:	Customer:	Pre-cleaning: <b>Light Cleaning</b>	Date cleaned: <b>20230725</b>	Project name: <b>ENV017-13</b>	
City: <b>WESTWOOD MA</b>	Street: <b>NAHATAN ST</b>	Location code:	Pipe use: <b>Sanitary Sewage Pipe</b>	Drainage area: 	Flow control: 
Upstream MH No: <b>15/001</b>	Downstream MH No: <b>15/002</b>	Direction: <b>U</b>	Total length: <b>304.300 ft.</b>	Length surveyed: <b>304.300 ft.</b>	
Purpose: <b>Maintenance Related</b>	Pipe joint length: 	Height: <b>8 in.</b>	Material: <b>Asbestos Cement</b>	LateralsCounter: 	Additional info: 

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/001'





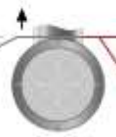
Mainline length: 304.300 ft.  
Surveyed length: 304.300 ft.

Omitted: 304.3 ft.

Started at 0.0 ft. against flow  
on 7/25/2023 12:13:42 PM



AMH '15/002'



- At 0.0 ft.  
AMH - Manhole  
Comments: 15/002
- At 0.0 ft.  
MWL - Miscellaneous Water  
Level

304.300 ft.  
304.300 ft.

# NWMCC INSPECTION REPORT

## Inspection Photos

City: <b>WESTWOOD MA</b>	Street: <b>NAHATAN ST</b>	Start date/time: <b>20230725 12:13</b>	Pipe segment ref.: <b>15/002 - 15/001</b>
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Photo: 15\_001-15\_002-20230725-121926.JPG  
At: 73.8 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_001-15\_002-20230725-122140.JPG  
At: 131.6 ft. 2/. TS - Tap Saddle  
Joint: No



Photo: 15\_001-15\_002-20230725-122534.JPG  
At: 268.7 ft. MMC - Miscellaneous Material Change  
Joint: No CAST IRON



Photo: 15\_001-15\_002-20230725-122554.JPG  
At: 269.8 ft. 3/. TFC - Tap Factory Capped  
Joint: No



Distance: 270.9 ft.  
MMC - Miscellaneous Material Change  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
AC

Photo: 15\_001-15\_002-20230725-122611.JPG  
At: 270.9 ft. MMC - Miscellaneous Material Change  
Joint: No AC



Distance: 304.3 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
001

Photo: 15\_001-15\_002-20230725-122727.JPG  
At: 304.3 ft. AMH - Manhole  
Joint: No 001



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

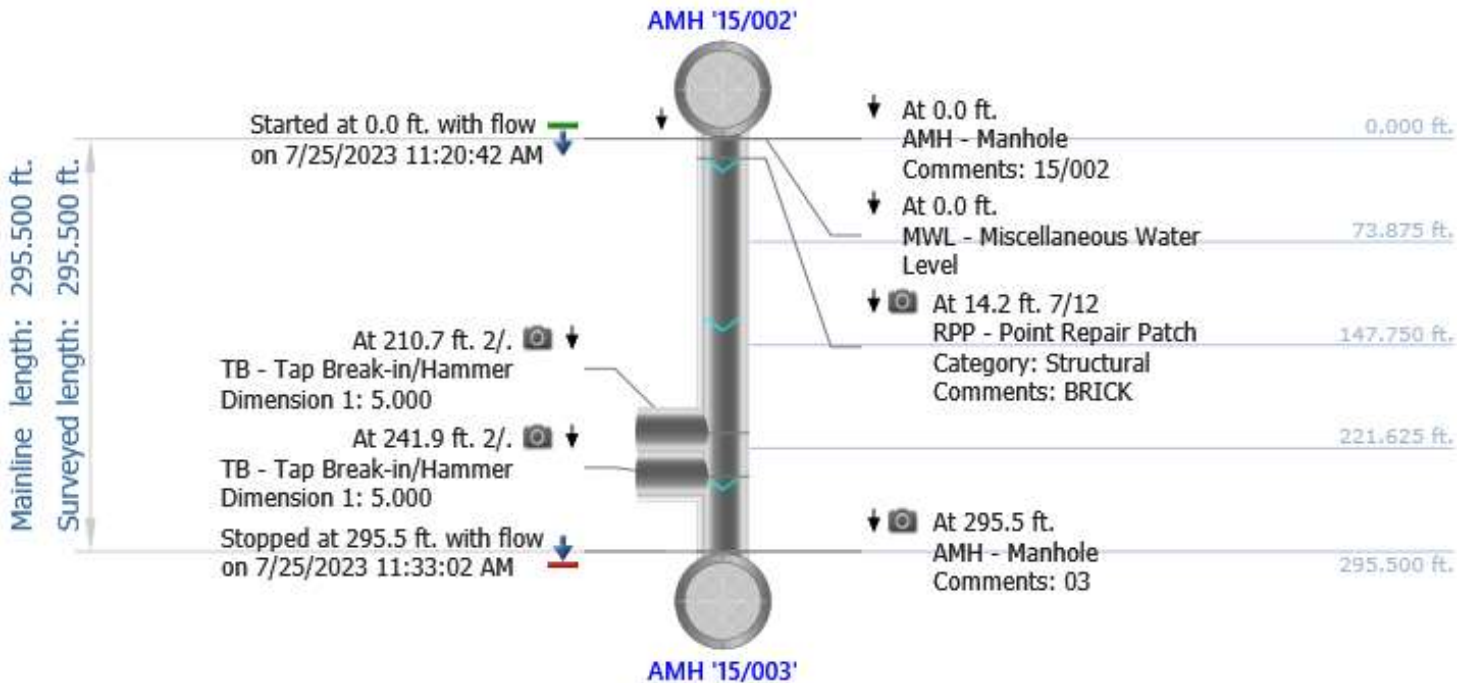


## NWMCC INSPECTION REPORT

Start date/time: 20230725 11:20	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/002 - 15/003
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/002	Downstream MH No: 15/003	Direction: D	Total length: 295.500 ft.	Length surveyed: 295.500 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230725 11:20	Pipe segment ref.: 15/002 - 15/003
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Photo: 15\_002-15\_003-20230725-112219.JPG  
At: 14.2 ft. 7/12 RPP - Point Repair Patch  
Joint: No BRICK



Photo: 15\_002-15\_003-20230725-112822.JPG  
At: 210.7 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_002-15\_003-20230725-113040\_1.JPG  
At: 241.9 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_002-15\_003-20230725-113040.JPG  
At: 241.9 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_002-15\_003-20230725-113231.JPG

At: 295.5 ft. AMH - Manhole

Joint: No 03



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
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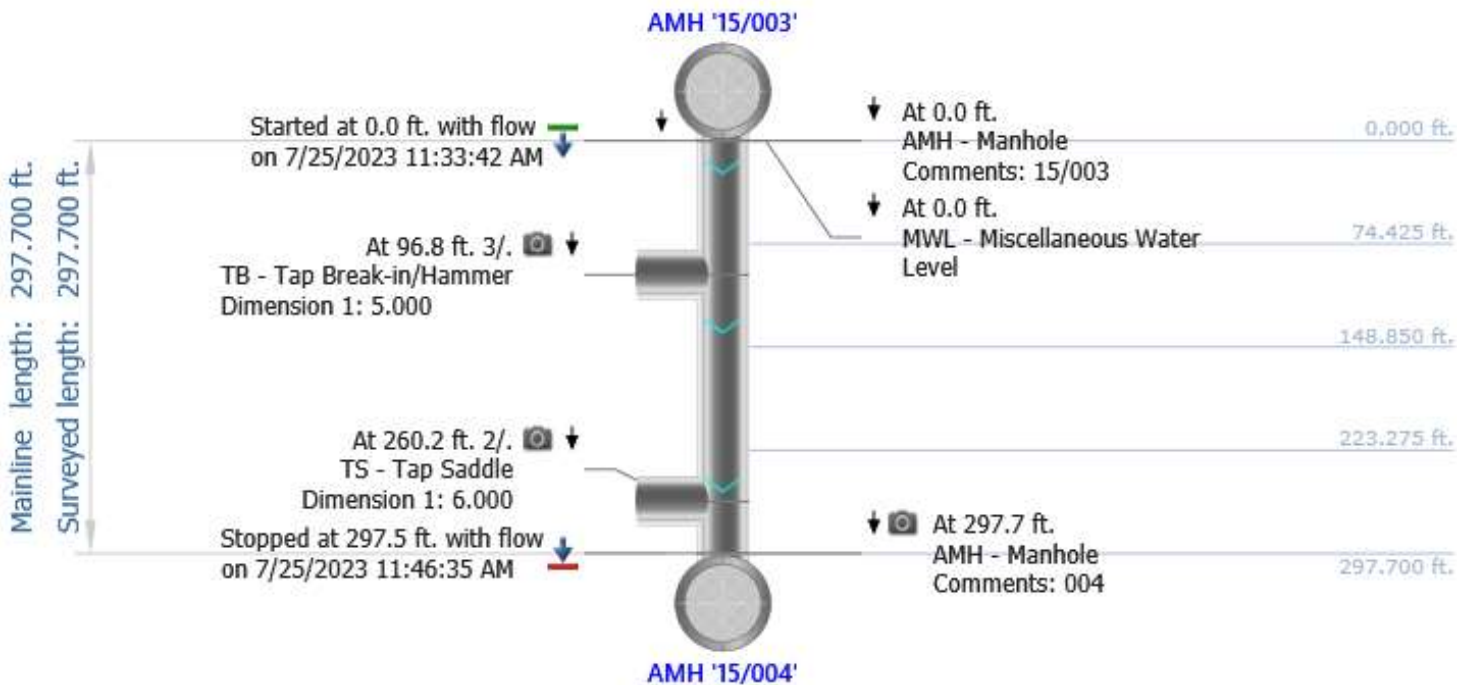


## NWMCC INSPECTION REPORT

Start date/time: 20230725 11:33	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/003 - 15/004
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/003	Downstream MH No: 15/004	Direction: D	Total length: 297.700 ft.	Length surveyed: 297.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230725 11:33	Pipe segment ref.: 15/003 - 15/004
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Photo: 15\_003-15\_004-20230725-113833.JPG  
At: 96.8 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_003-15\_004-20230725-114418.JPG  
At: 260.2 ft. 2/. TS - Tap Saddle  
Joint: No



Photo: 15\_003-15\_004-20230725-114559.JPG  
At: 297.7 ft. AMH - Manhole  
Joint: No 004



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
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<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



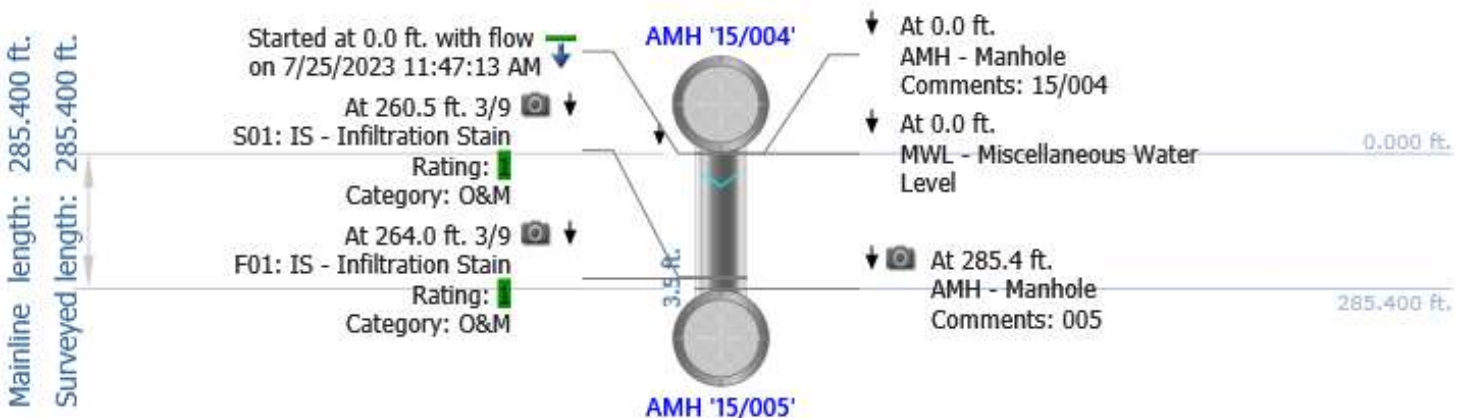
## NWMCC INSPECTION REPORT

Start date/time: 20230725 11:47	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/004 - 15/005
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/004	Downstream MH No: 15/005	Direction: D	Total length: 285.400 ft.	Length surveyed: 285.400 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

Stopped at -586.8 ft. with flow ↓  
on 7/25/2023 12:13:00 PM



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230725 11:47	Pipe segment ref.: 15/004 - 15/005
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Photo: 15\_004-15\_005-20230725-115813.JPG  
At: 260.5 ft. 3/9 IS - Infiltration Stain  
Joint: No



Photo: 15\_004-15\_005-20230725-121258.JPG  
At: 264 ft. 3/9 IS - Infiltration Stain  
Joint: No



Photo: 15\_004-15\_005-20230725-120135.JPG  
At: 285.4 ft. AMH - Manhole  
Joint: No 005



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
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<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>





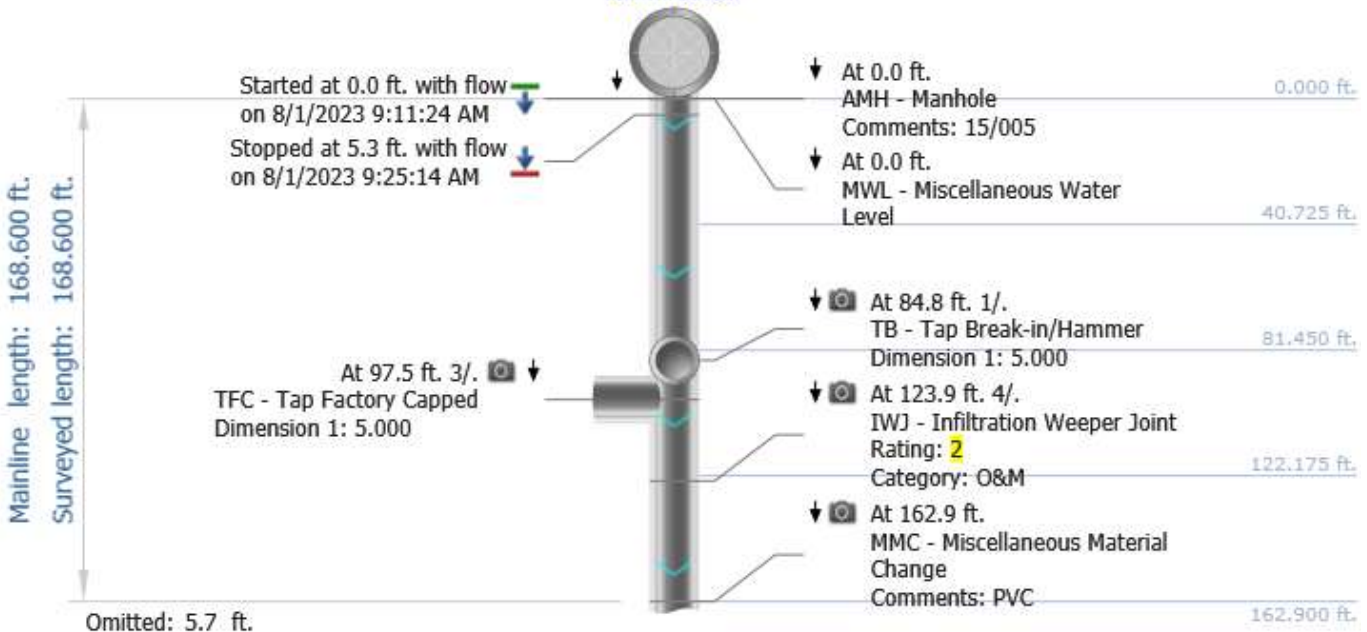
## NWMCC INSPECTION REPORT

Start date/time: 20230801 09:11	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/005 - 15/018
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FRENCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/005	Downstream MH No: 15/018	Direction: D	Total length: 168.600 ft.	Length surveyed: 168.600 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	2	2100	2.0	2	2.0	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/005'



Mainline length: 168.600 ft.  
Surveyed length: 168.600 ft.

Omitted: 166.2 ft.

At 166.2 ft.  
MMC - Miscellaneous Material  
Change  
Comments: VC

166.500 ft.

166.800 ft.

167.100 ft.

At 167.3 ft. 6/  
TF - Tap Factory  
Dimension 1: 8.000  
Comments: DROP CONNECTION

167.400 ft.

167.700 ft.

168.000 ft.

168.300 ft.

At 168.6 ft.  
AMH - Manhole  
Comments: 018

168.600 ft.

AMH '15/018'



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FRENCH ST	Start date/time: 20230801 09:11	Pipe segment ref.: 15/005 - 15/018
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Photo: 15\_005-15\_018-20230801-091542.JPG  
At: 84.8 ft. 1/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_005-15\_018-20230801-091651.JPG  
At: 97.5 ft. 3/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_005-15\_018-20230801-091813.JPG  
At: 123.9 ft. 4/. IWJ - Infiltration Weeper Joint  
Joint: Yes

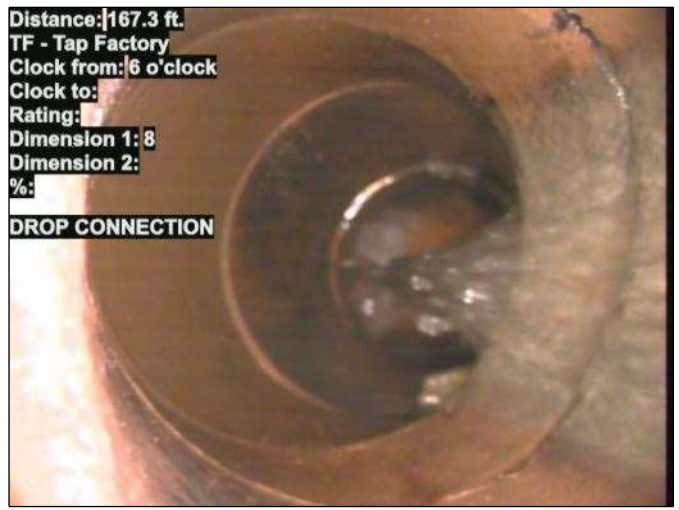


Photo: 15\_005-15\_018-20230801-091958.JPG  
At: 162.9 ft. MMC - Miscellaneous Material Change  
Joint: No PVC



Distance: 166.2 ft.  
MMC - Miscellaneous Material Change  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
VC

Photo: 15\_005-15\_018-20230801-092022.JPG  
At: 166.2 ft. MMC - Miscellaneous Material Change  
Joint: No VC



Distance: 167.3 ft.  
TF - Tap Factory  
Clock from: 6 o'clock  
Clock to:  
Rating:  
Dimension 1: 8  
Dimension 2:  
%:  
DROP CONNECTION

Photo: 15\_005-15\_018-20230801-092039.JPG  
At: 167.3 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION



Distance: 168.6 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
018

Photo: 15\_005-15\_018-20230801-092129.JPG  
At: 168.6 ft. AMH - Manhole  
Joint: No 018



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
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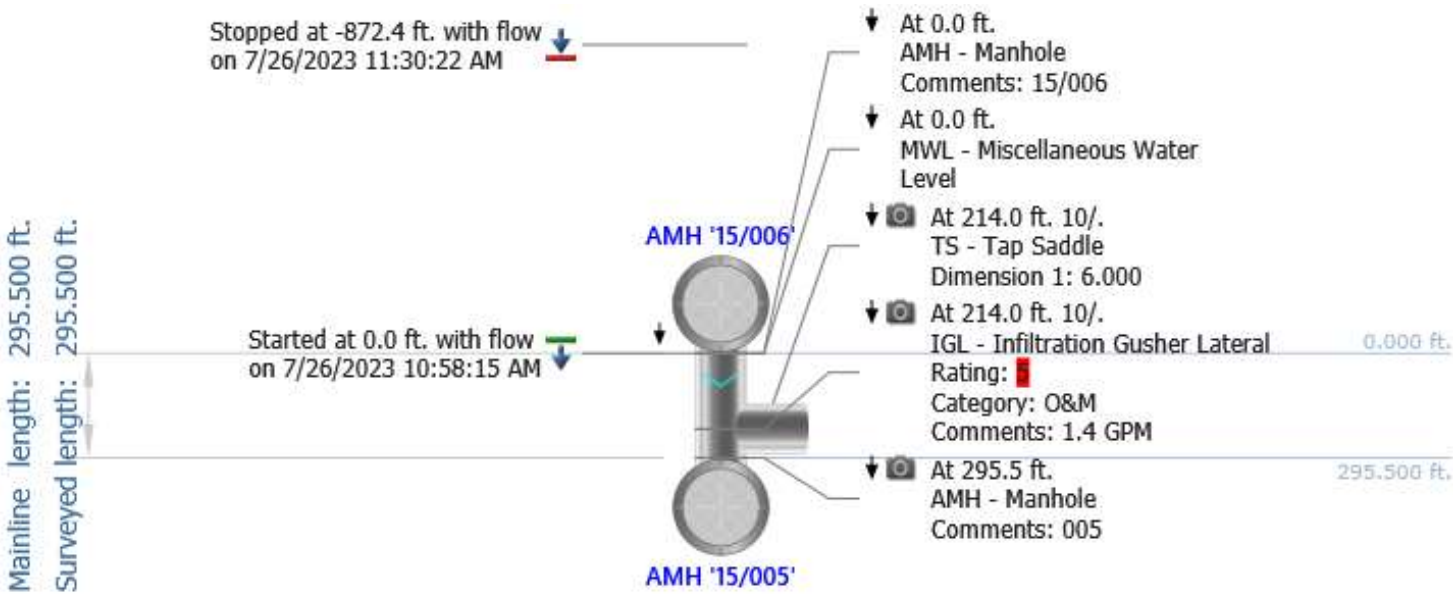


## NWMCC INSPECTION REPORT

Start date/time: 20230726 10:58	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/006 - 15/005
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/006	Downstream MH No: 15/005	Direction: D	Total length: 295.500 ft.	Length surveyed: 295.500 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	5	5100	5.0	5	5.0	5.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	5							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 10:58	Pipe segment ref.: 15/006 - 15/005
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Distance: 214.0 ft.  
TS - Tap Saddle  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 6  
Dimension 2:  
%:  
Photo: 15\_006-15\_005-20230726-110754.JPG  
At: 214 ft. 10/. TS - Tap Saddle  
Joint: No



Distance: 214.0 ft.  
IGL - Infiltration Gusher Lateral  
Clock from: 10 o'clock  
Clock to:  
Rating: 5  
Dimension 1:  
Dimension 2:  
%:  
1.4 GPM  
Photo: 15\_006-15\_005-20230726-110809.JPG  
At: 214 ft. 10/. IGL - Infiltration Gusher Lateral  
Joint: No 1.4 GPM



Distance: 295.5 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
005  
Photo: 15\_006-15\_005-20230726-111157.JPG  
At: 295.5 ft. AMH - Manhole  
Joint: No 005



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
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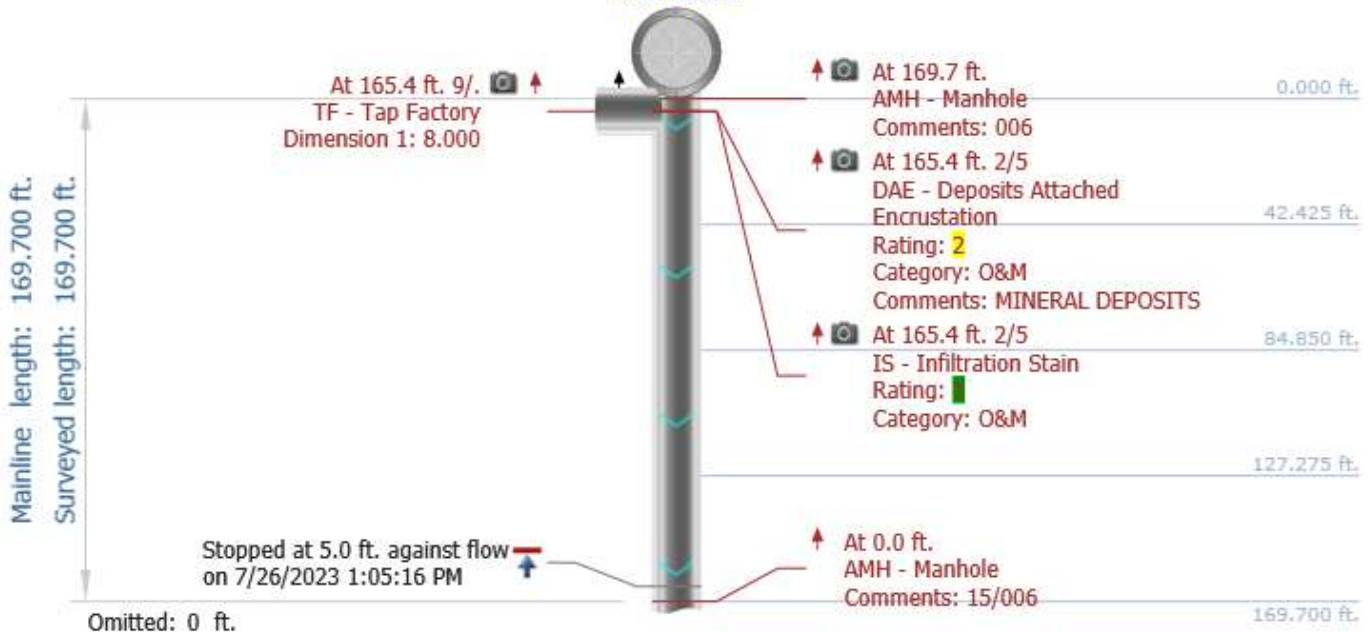
## NWMCC INSPECTION REPORT

Start date/time: 20230726 12:40	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/006 - 15/007
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/007	Downstream MH No: 15/006	Direction: U	Total length: 169.700 ft.	Length surveyed: 169.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	3	2111	1.5	3	1.5	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/007'



Mainline length: 169,700 ft.  
Surveyed length: 169,700 ft.

Omitted: 169.7 ft.

Started at 0.0 ft. against flow  
on 7/26/2023 12:40:47 PM



AMH '15/006'



At 0.0 ft.  
MWL - Miscellaneous Water  
Level

169,700 ft.  
169,700 ft.



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 12:40	Pipe segment ref.: 15/006 - 15/007
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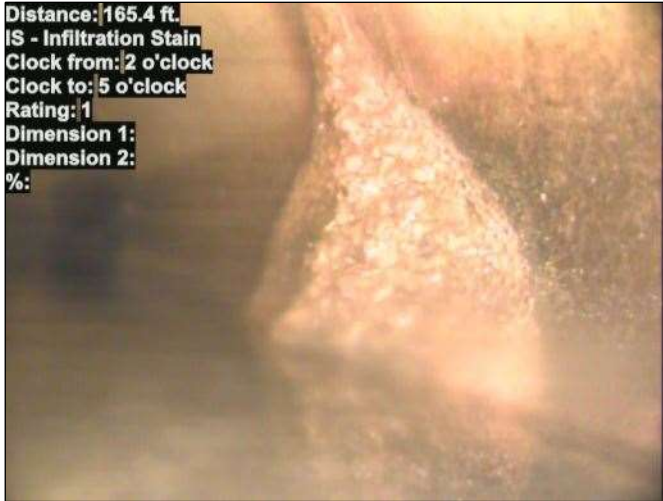


Photo: 15\_007-15\_006-20230726-125237.JPG  
At: 165.4 ft. 2/5 IS - Infiltration Stain  
Joint: No



Photo: 15\_007-15\_006-20230726-125205.JPG  
At: 165.4 ft. 2/5 DAE - Deposits Attached Encrustation  
Joint: No 5 % MINERAL DEPOSITS



Photo: 15\_007-15\_006-20230726-125145.JPG  
At: 165.4 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_007-15\_006-20230726-125310.JPG  
At: 169.7 ft. AMH - Manhole  
Joint: No 006



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

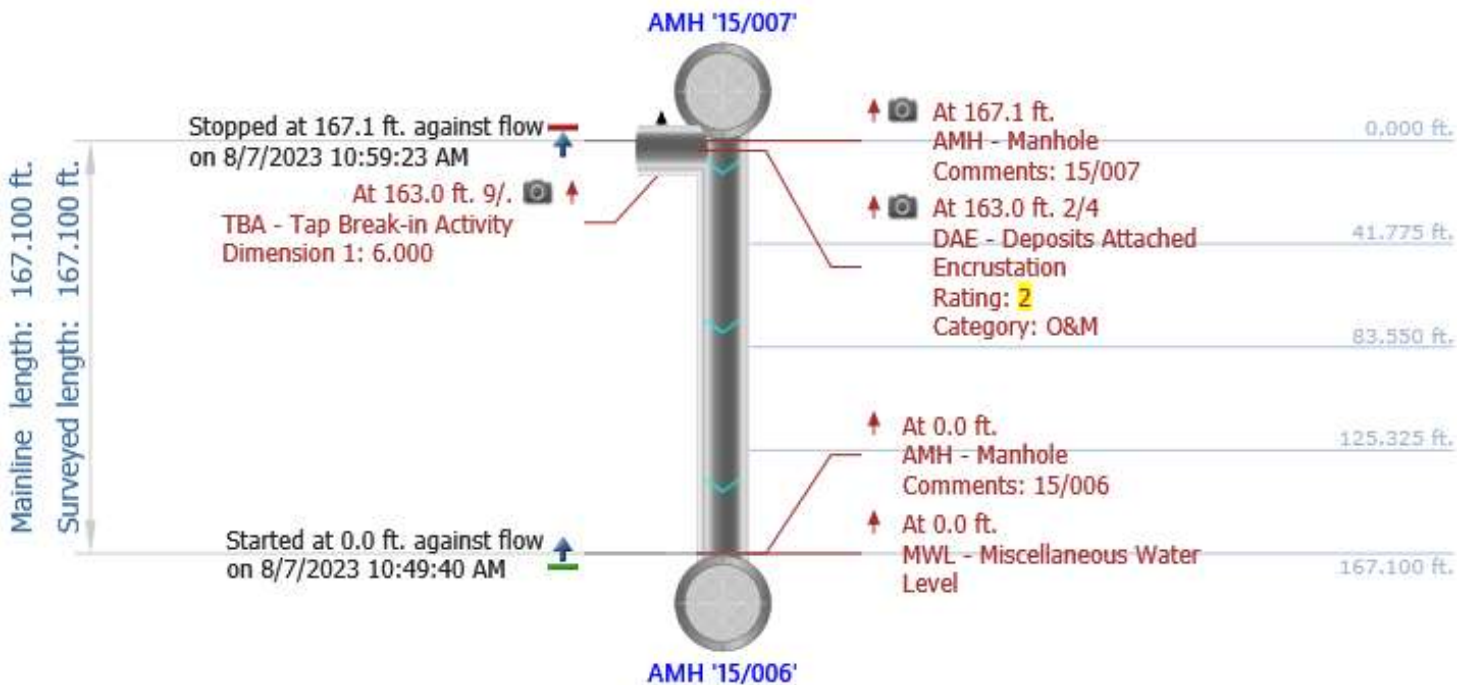


## NWMCC INSPECTION REPORT

Start date/time: 20230807 10:49	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/007-15/006
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Secondary Road	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/007	Downstream MH No: 15/006	Direction: U	Total length: 167.100 ft.	Length surveyed: 167.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	2	2100	2.0	2	2.0	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 10:49	Pipe segment ref.: 15/007-15/006
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Photo: 15\_007-15\_006-20230807-105714.JPG  
At: 163 ft. 9/. TBA - Tap Break-in Activity  
Joint: No



Photo: 15\_007-15\_006-20230807-105737.JPG  
At: 163 ft. 2/4 DAE - Deposits Attached Encrustation  
Joint: No 5 %

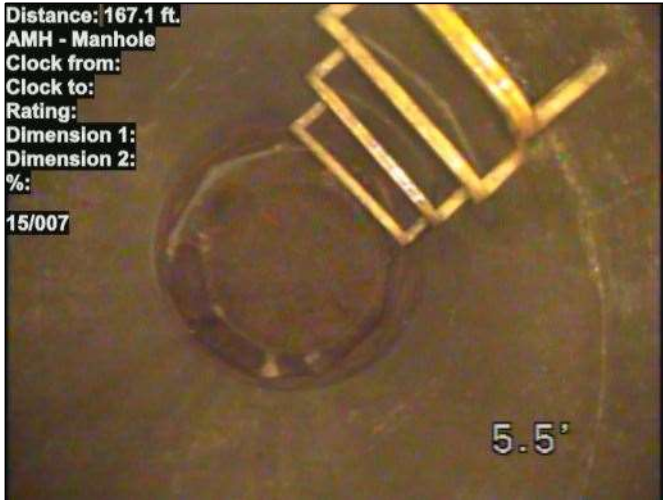


Photo: 15\_007-15\_006-20230807-105823.JPG  
At: 167.1 ft. AMH - Manhole  
Joint: No 15/007



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



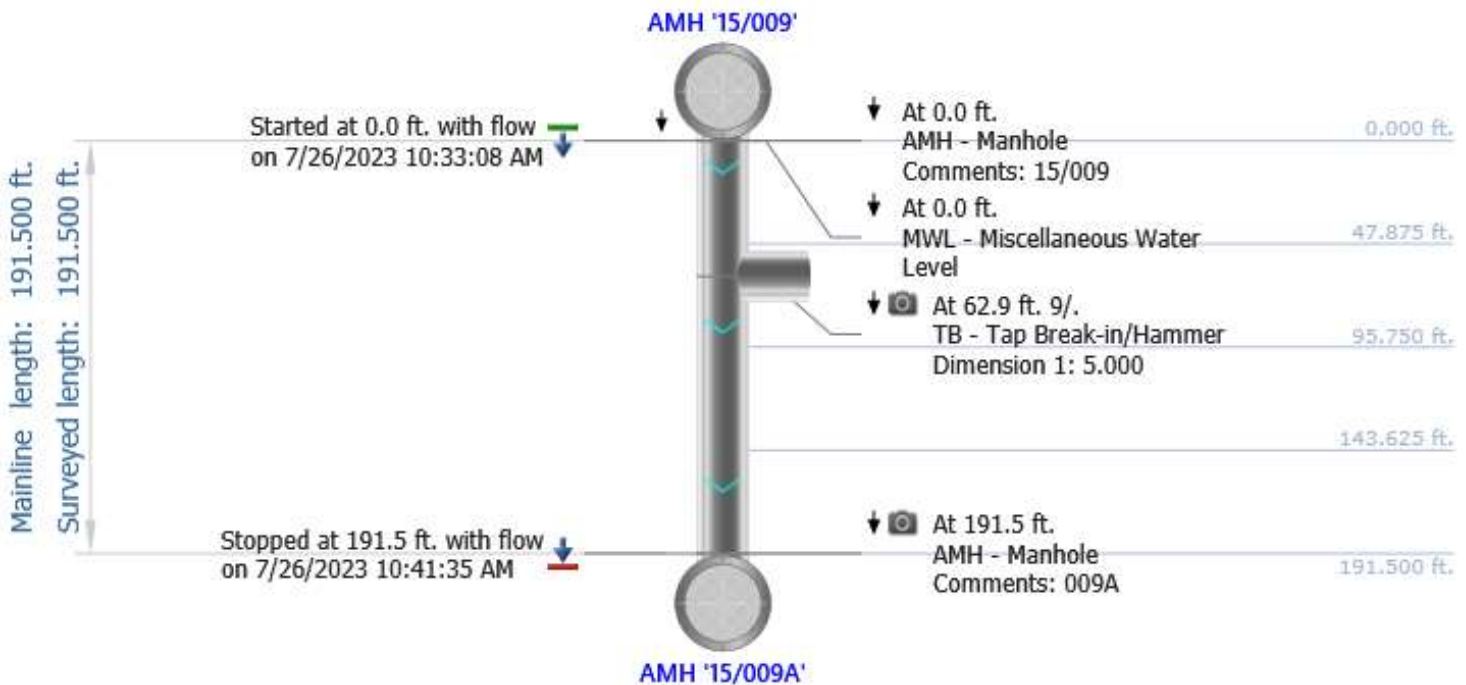


## NWMCC INSPECTION REPORT

Start date/time: 20230726 10:33	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/009 - 15/009A
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/009	Downstream MH No: 15/009A	Direction: D	Total length: 191.500 ft.	Length surveyed: 191.500 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 10:33	Pipe segment ref.: 15/009 - 15/009A
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Photo: 15\_009-15\_009A-20230726-103622.JPG  
At: 62.9 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_009-15\_009A-20230726-104100.JPG  
At: 191.5 ft. AMH - Manhole  
Joint: No 009A



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



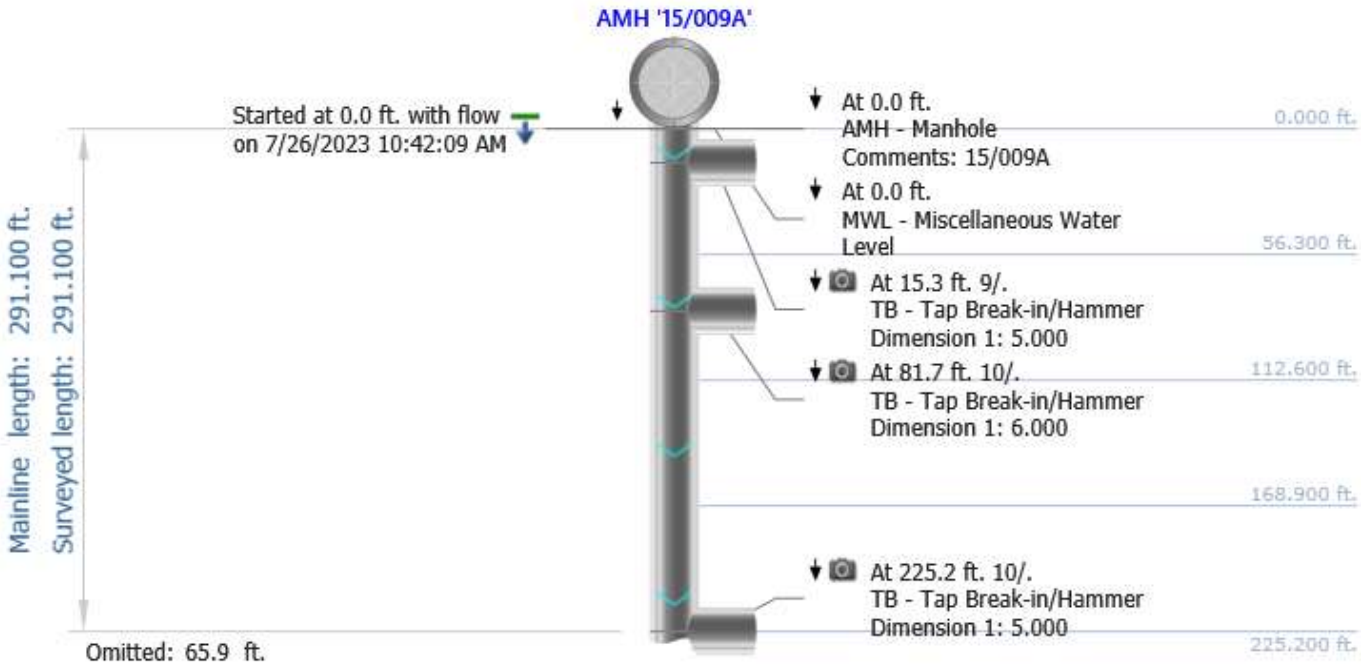


## NWMCC INSPECTION REPORT

Start date/time: 20230726 10:42	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/009A - 15/006
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/009A	Downstream MH No: 15/006	Direction: D	Total length: 291.100 ft.	Length surveyed: 291.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 291.100 ft.  
Surveyed length: 291.100 ft.

Omitted: 225.2 ft.

At 225.2 ft. 9/  
ISL - Infiltration Stain Lateral 225.200 ft.  
Rating: █  
Category: O&M

233.438 ft.

241.675 ft.

249.913 ft.

258.150 ft.

266.388 ft.

274.625 ft.

282.863 ft.

Stopped at 291.1 ft. with flow  
on 7/26/2023 10:57:14 AM

At 291.1 ft.  
AMH - Manhole 291.100 ft.  
Comments: 006

AMH '15/006'

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 10:42	Pipe segment ref.: 15/009A - 15/006
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Photo: 15\_009A-15\_006-20230726-104433.JPG  
At: 15.3 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_009A-15\_006-20230726-104722.JPG  
At: 81.7 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_009A-15\_006-20230726-105140.JPG  
At: 225.2 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_009A-15\_006-20230726-105205.JPG  
At: 225.2 ft. 9/. ISL - Infiltration Stain Lateral  
Joint: No



Photo: 15\_009A-15\_006-20230726-105639.JPG

At: 291.1 ft. AMH - Manhole

Joint: No 006



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
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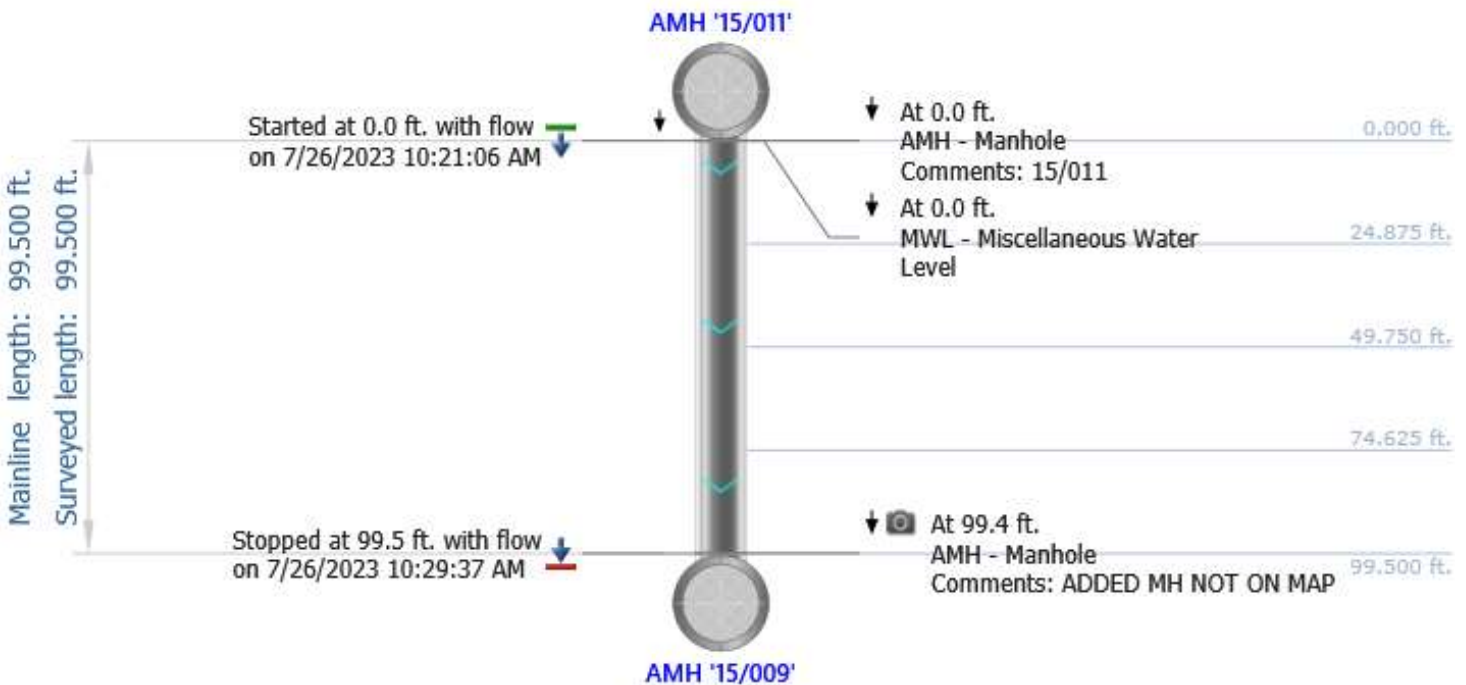


## NWMCC INSPECTION REPORT

Start date/time: 20230726 10:21	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/011 - 15/009
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/011	Downstream MH No: 15/009	Direction: D	Total length: 99.500 ft.	Length surveyed: 99.500 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 10:21	Pipe segment ref.: 15/011 - 15/009
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Photo: 15\_011-15\_009-20230726-102622.JPG  
At: 99.4 ft. AMH - Manhole  
Joint: No ADDED MH NOT ON MAP



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
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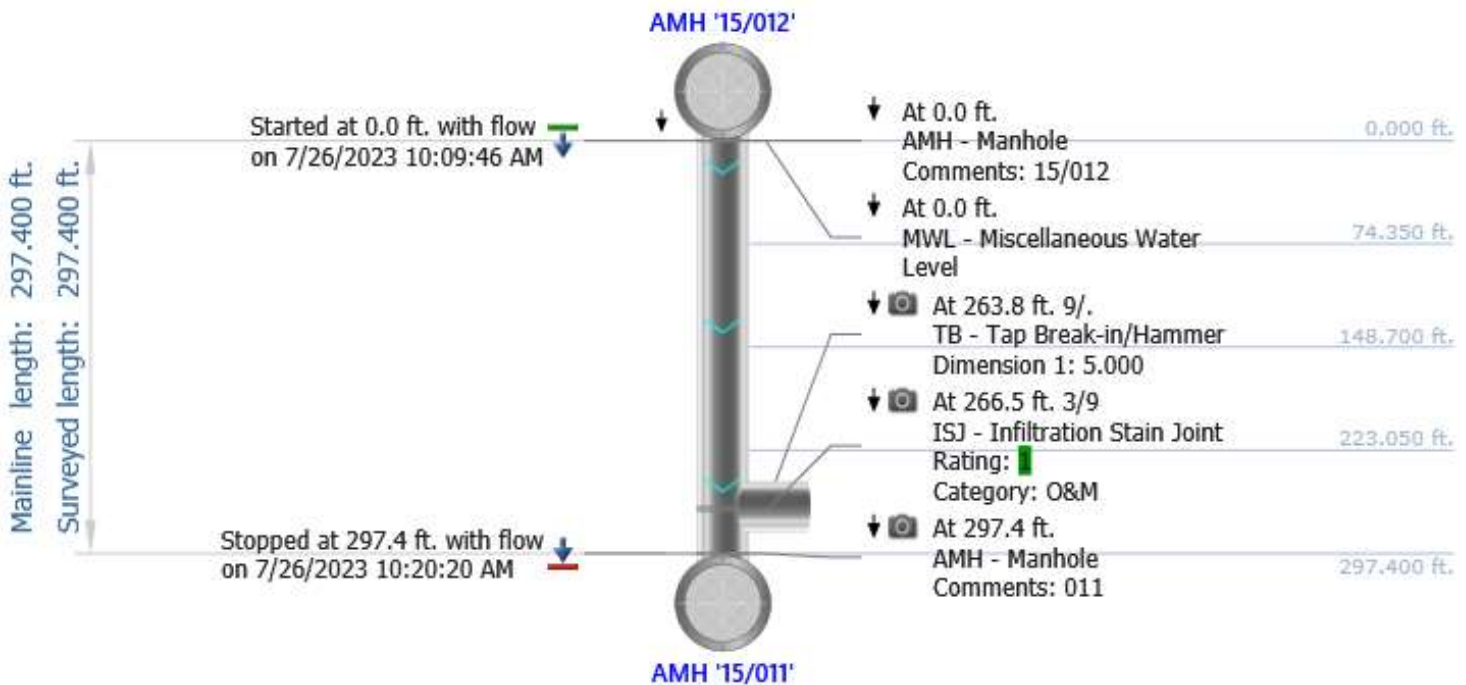


## NWMCC INSPECTION REPORT

Start date/time: 20230726 10:09	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/012 - 15/011
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/012	Downstream MH No: 15/011	Direction: D	Total length: 297.400 ft.	Length surveyed: 297.400 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 10:09	Pipe segment ref.: 15/012 - 15/011
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Photo: 15\_012-15\_011-20230726-101745.JPG  
At: 263.8 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_012-15\_011-20230726-101829.JPG  
At: 266.5 ft. 3/9 ISJ - Infiltration Stain Joint  
Joint: Yes



Photo: 15\_012-15\_011-20230726-101942.JPG  
At: 297.4 ft. AMH - Manhole  
Joint: No 011



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
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<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



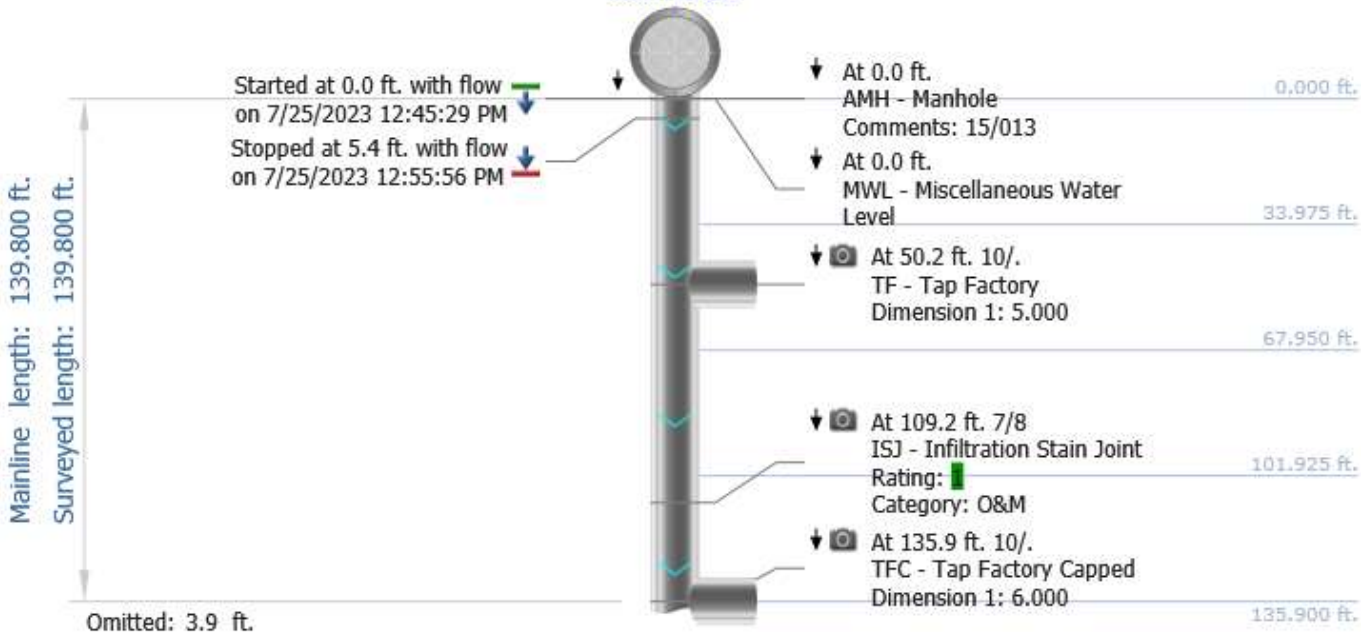
## NWMCC INSPECTION REPORT

Start date/time: 20230725 12:45	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/013 - 15/014
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BAKER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/013	Downstream MH No: 15/014	Direction: D	Total length: 139.800 ft.	Length surveyed: 139.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

#### AMH '15/013'





Mainline length: 139.800 ft.  
Surveyed length: 139.800 ft.

Omitted: 139.8 ft.



At 139.8 ft.  
AMH - Manhole  
Comments: 014

139.800 ft.  
139.800 ft.

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: BAKER ST	Start date/time: 20230725 12:45	Pipe segment ref.: 15/013 - 15/014
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Photo: 15\_013-15\_014-20230725-124802.JPG  
At: 50.2 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_013-15\_014-20230725-125038.JPG  
At: 109.2 ft. 7/8 ISJ - Infiltration Stain Joint  
Joint: Yes



Photo: 15\_013-15\_014-20230725-125150.JPG  
At: 135.9 ft. 10/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_013-15\_014-20230725-125220.JPG  
At: 139.8 ft. AMH - Manhole  
Joint: No 014



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

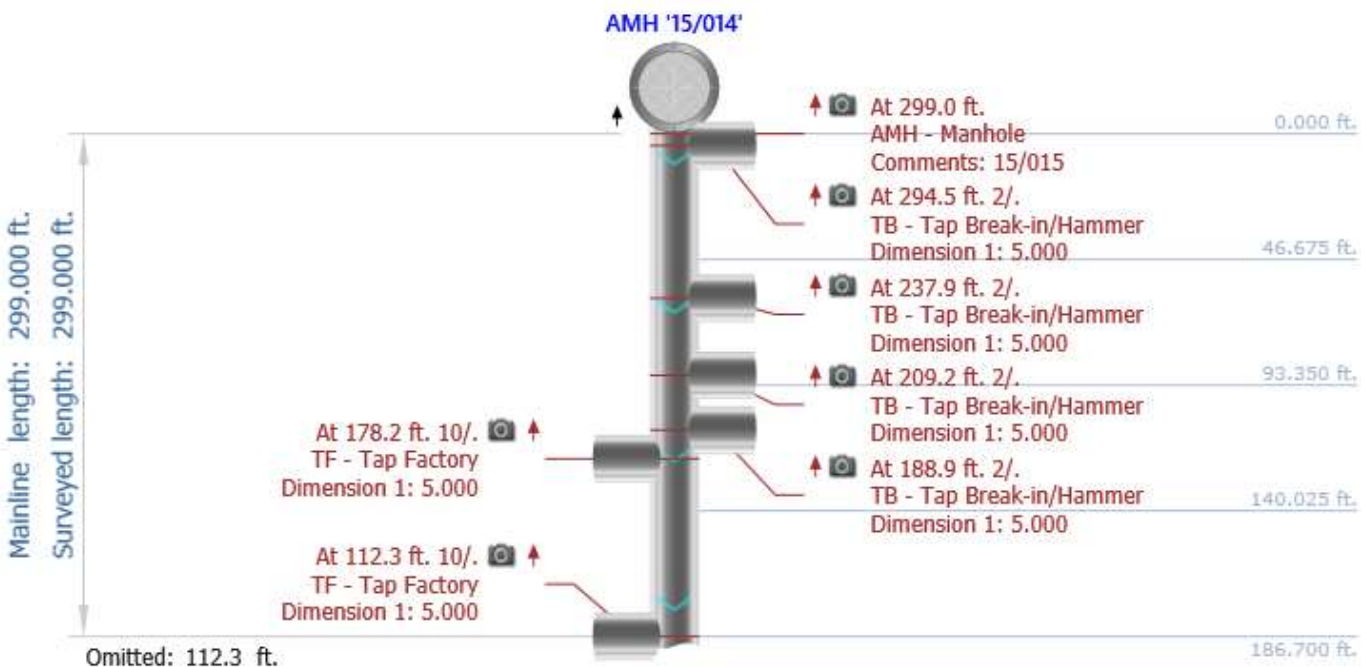


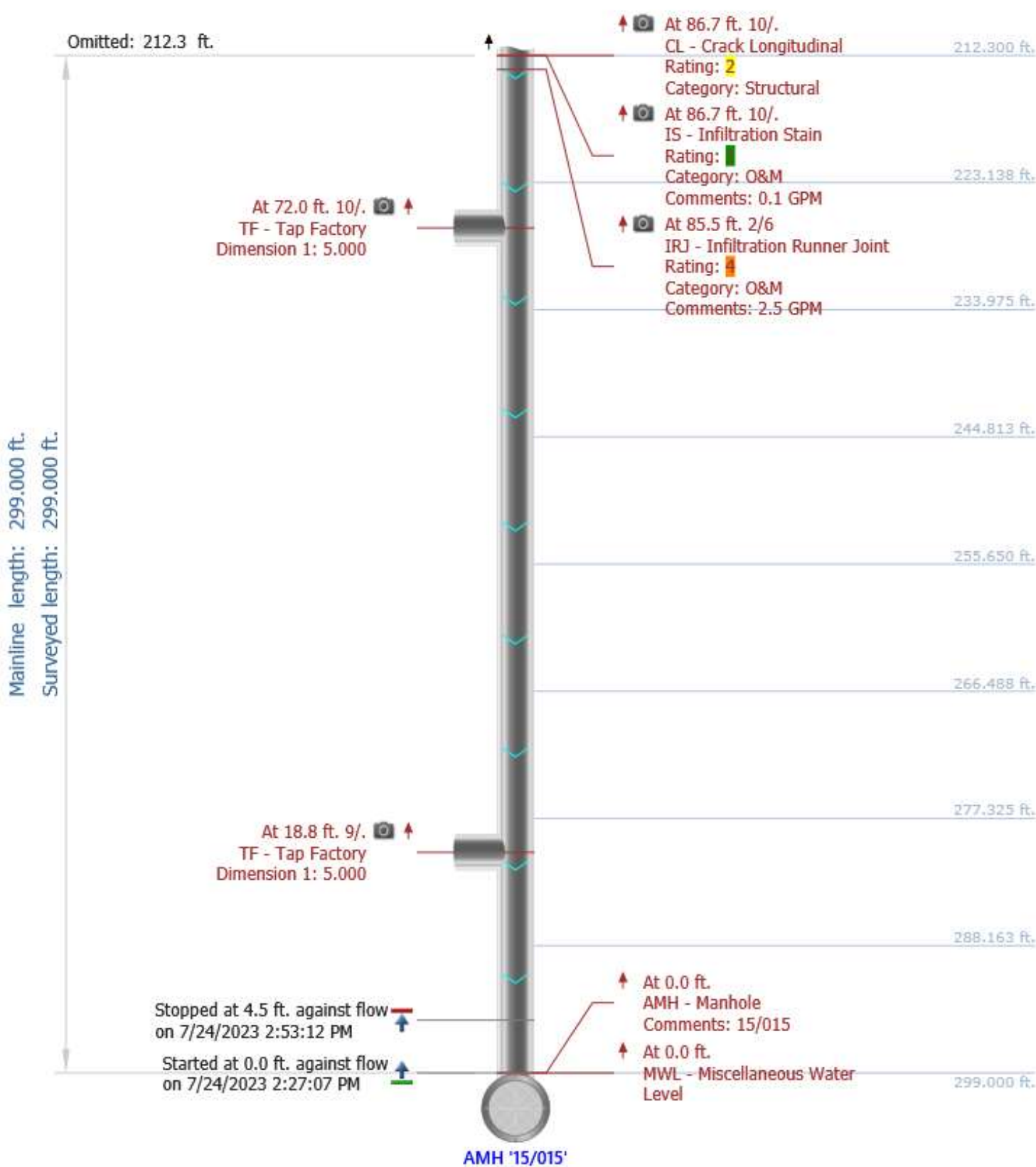
## NWMCC INSPECTION REPORT

Start date/time: 20230724 14:27	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/015 - 15/014
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD ST	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/014	Downstream MH No: 15/015	Direction: U	Total length: 299.000 ft.	Length surveyed: 299.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	1	5	4111	2.5	7	2.3	4.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	4							
5	0	0				0	0							







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD ST	Street: ELLIS ST	Start date/time: 20230724 14:27	Pipe segment ref.: 15/015 - 15/014
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Photo: 15\_014-15\_015-20230724-143457.JPG  
At: 18.8 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_014-15\_015-20230724-143650.JPG  
At: 72 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_014-15\_015-20230724-143735.JPG  
At: 85.5 ft. 2/6 IRJ - Infiltration Runner Joint  
Joint: Yes 2.5 GPM



Photo: 15\_014-15\_015-20230724-143819.JPG  
At: 86.7 ft. 10/. CL - Crack Longitudinal  
Joint: No





Distance: 86.7 ft.  
IS - Infiltration Stain  
Clock from: 10 o'clock  
Clock to:  
Rating: 1  
Dimension 1:  
Dimension 2:  
%:  
0.1 GPM  
Photo: 15\_014-15\_015-20230724-143825.JPG  
At: 86.7 ft. 10/. IS - Infiltration Stain  
Joint: No 0.1 GPM



Distance: 112.3 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_014-15\_015-20230724-144011.JPG  
At: 112.3 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 178.2 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_014-15\_015-20230724-144249.JPG  
At: 178.2 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 188.9 ft.  
TB - Tap Break-in/Hammer  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_014-15\_015-20230724-144333.JPG  
At: 188.9 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 209.2 ft.  
TB - Tap Break-in/Hammer  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_014-15\_015-20230724-144425.JPG  
At: 209.2 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 237.9 ft.  
TB - Tap Break-in/Hammer  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_014-15\_015-20230724-144538.JPG  
At: 237.9 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 294.5 ft.  
TB - Tap Break-in/Hammer  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_014-15\_015-20230724-144716.JPG  
At: 294.5 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 299.0 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

15/015

Photo: 15\_014-15\_015-20230724-144752.JPG  
At: 299 ft. AMH - Manhole  
Joint: No 15/015



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

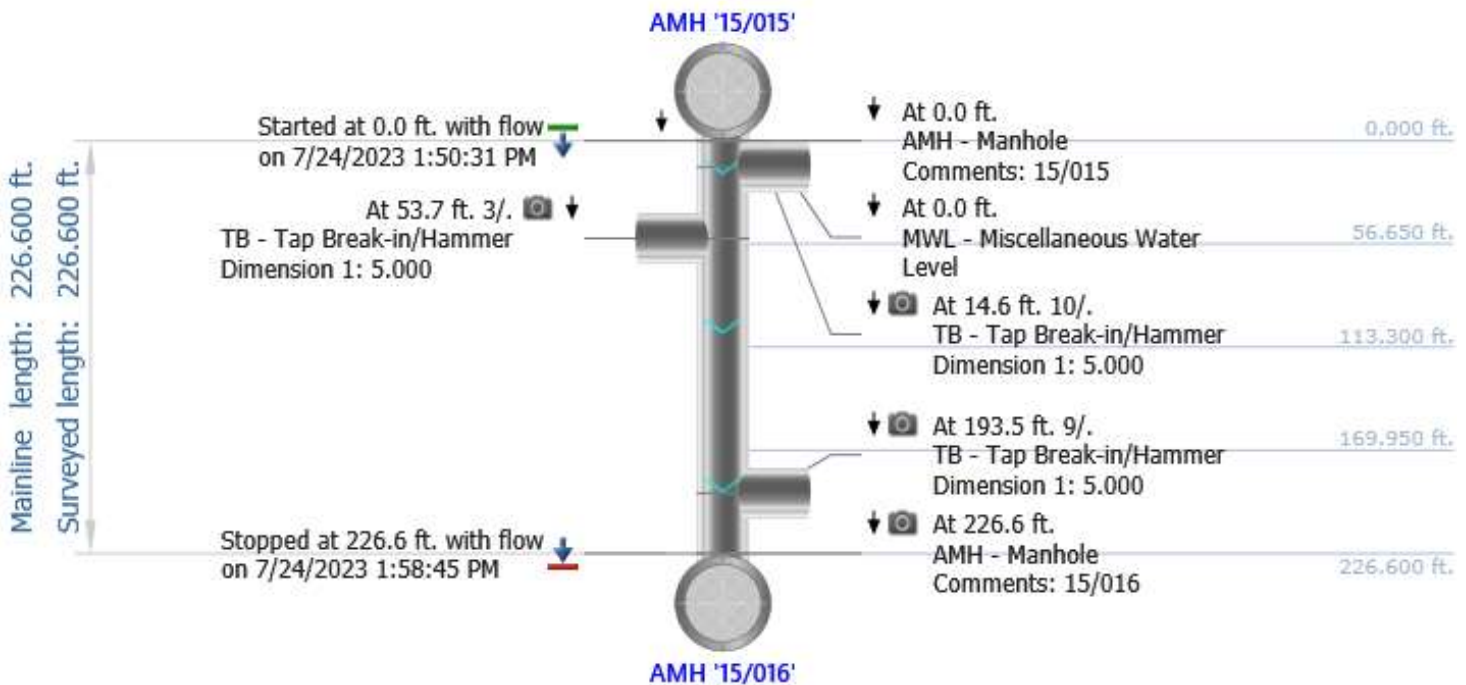


## NWMCC INSPECTION REPORT

Start date/time: 20230724 13:50	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/015 - 15/016
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/015	Downstream MH No: 15/016	Direction: D	Total length: 226.600 ft.	Length surveyed: 226.600 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230724 13:50	Pipe segment ref.: 15/015 - 15/016
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Photo: 15\_015-15\_016-20230724-135227.JPG  
At: 14.6 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_015-15\_016-20230724-135350.JPG  
At: 53.7 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_015-15\_016-20230724-135701.JPG  
At: 193.5 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_015-15\_016-20230724-135816.JPG  
At: 226.6 ft. AMH - Manhole  
Joint: No 15/016



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



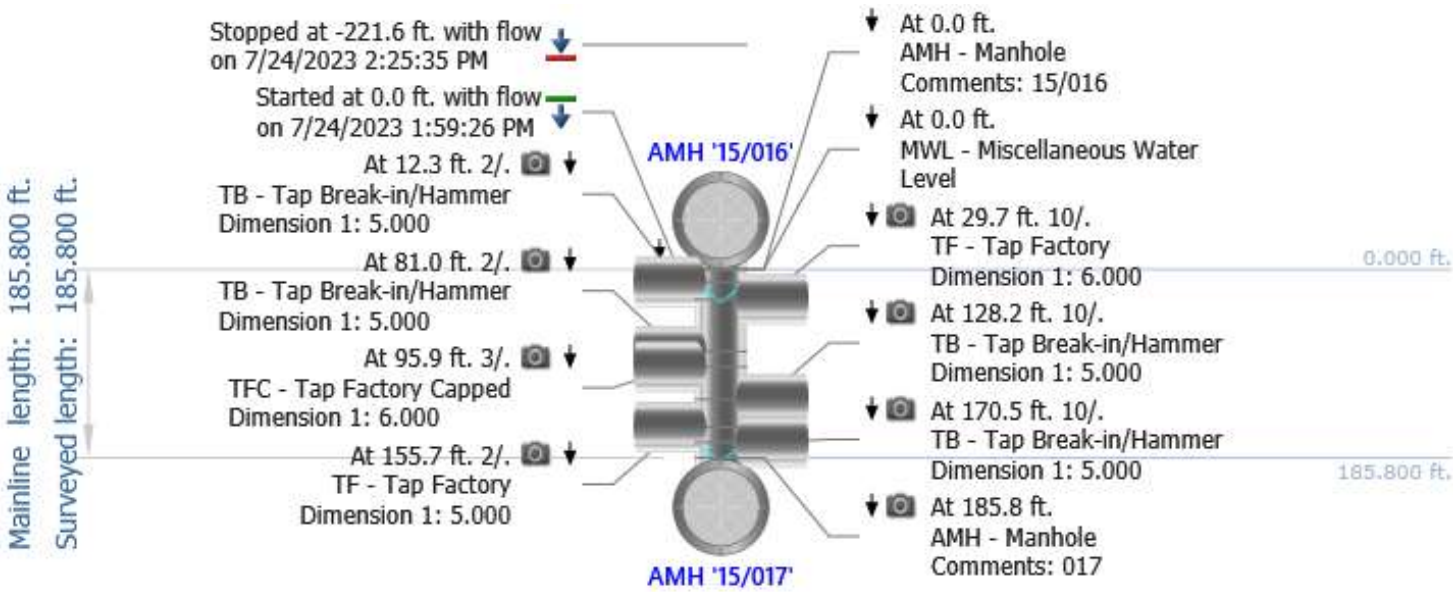


## NWMCC INSPECTION REPORT

Start date/time: 20230724 13:59	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/016 - 15/017
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/016	Downstream MH No: 15/017	Direction: D	Total length: 185.800 ft.	Length surveyed: 185.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230724 13:59	Pipe segment ref.: 15/016 - 15/017
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Photo: 15\_016-15\_017-20230724-140230.JPG  
At: 12.3 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No

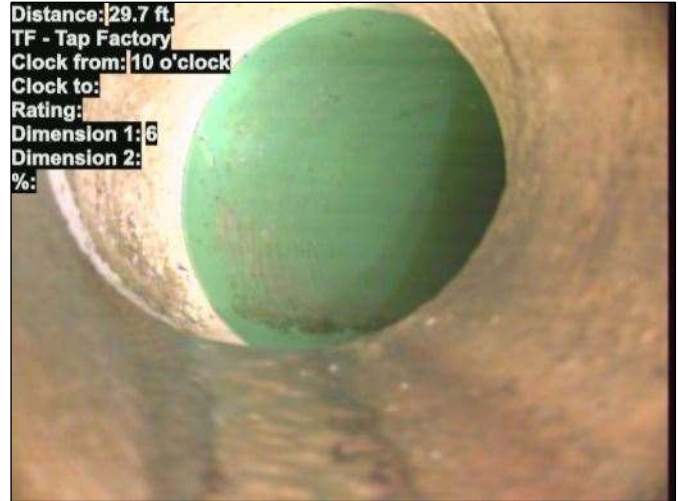


Photo: 15\_016-15\_017-20230724-140321.JPG  
At: 29.7 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_016-15\_017-20230724-140515.JPG  
At: 81 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_016-15\_017-20230724-140628.JPG  
At: 95.9 ft. 3/. TFC - Tap Factory Capped  
Joint: No



Distance: 128.2 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_016-15\_017-20230724-140737.JPG  
At: 128.2 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 155.7 ft.  
TF - Tap Factory  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_016-15\_017-20230724-140839.JPG  
At: 155.7 ft. 2/. TF - Tap Factory  
Joint: No



Distance: 170.5 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_016-15\_017-20230724-140931.JPG  
At: 170.5 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 185.8 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
017  
Photo: 15\_016-15\_017-20230724-141048.JPG  
At: 185.8 ft. AMH - Manhole  
Joint: No 017



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



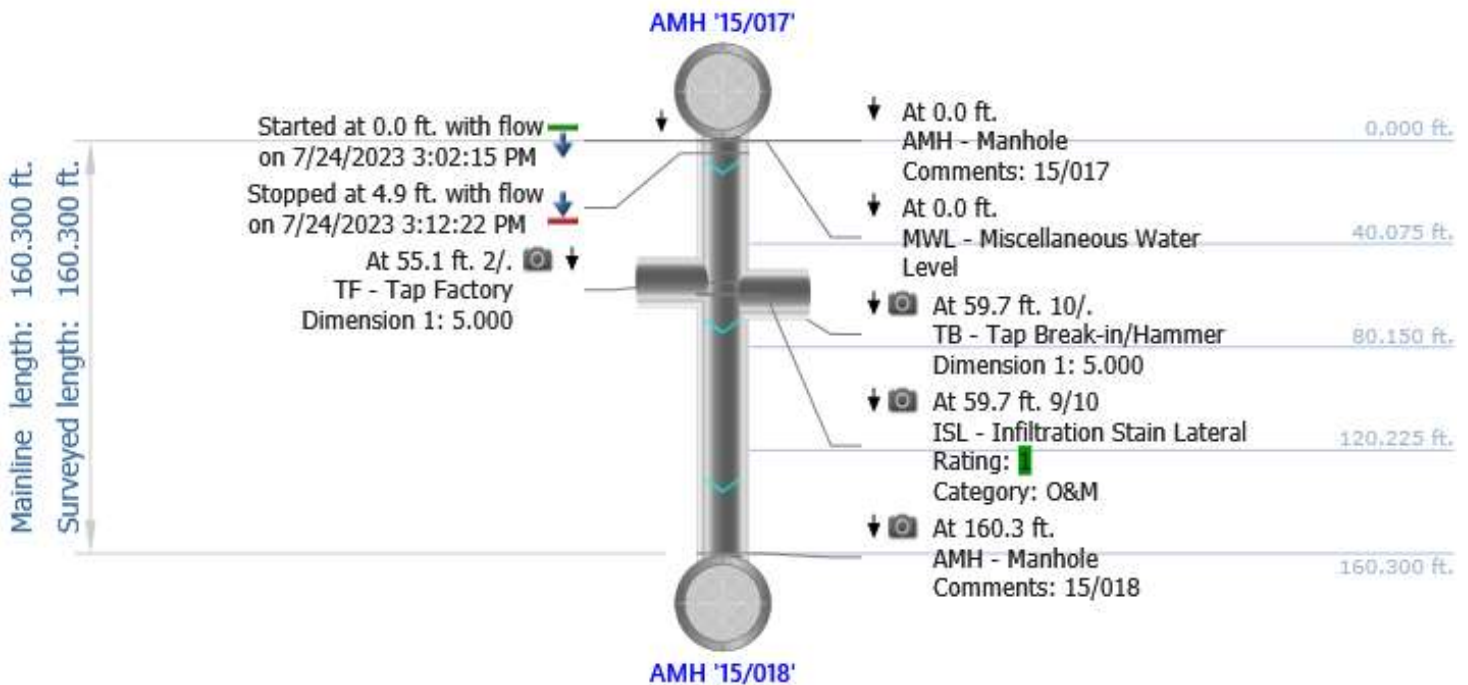


## NWMCC INSPECTION REPORT

Start date/time: 20230724 15:02	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/017 - 15/018
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/017	Downstream MH No: 15/018	Direction: D	Total length: 160.300 ft.	Length surveyed: 160.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230724 15:02	Pipe segment ref.: 15/017 - 15/018
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Photo: 15\_017-15\_018-20230724-150507.JPG  
At: 55.1 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_017-15\_018-20230724-150624.JPG  
At: 59.7 ft. 9/10 ISL - Infiltration Stain Lateral  
Joint: No



Photo: 15\_017-15\_018-20230724-150542.JPG  
At: 59.7 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_017-15\_018-20230724-150929.JPG  
At: 160.3 ft. AMH - Manhole  
Joint: No 15/018



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

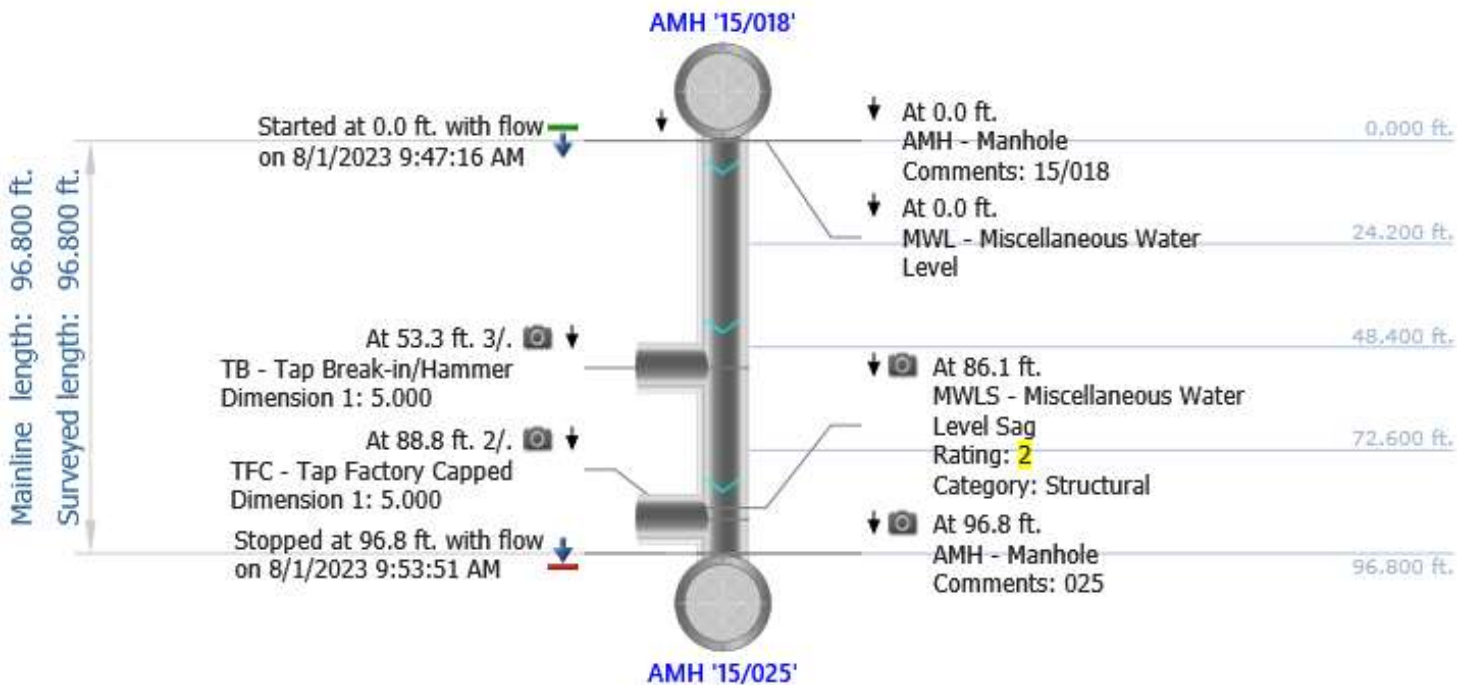


## NWMCC INSPECTION REPORT

Start date/time: 20230801 09:47	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/018 - 15/025
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FRENCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/018	Downstream MH No: 15/025	Direction: D	Total length: 96.800 ft.	Length surveyed: 96.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FRENCH ST	Start date/time: 20230801 09:47	Pipe segment ref.: 15/018 - 15/025
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Photo: 15\_018-15\_025-20230801-095000.JPG  
At: 53.3 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_018-15\_025-20230801-095130.JPG  
At: 86.1 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 20 %



Photo: 15\_018-15\_025-20230801-095221.JPG  
At: 88.8 ft. 2/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_018-15\_025-20230801-095321.JPG  
At: 96.8 ft. AMH - Manhole  
Joint: No 025





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p><b>Minor Defects - Failure unlikely in the foreseeable future</b></p>
<p><u>2:</u>    <b>Good Condition</b></p> <p><b>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</b></p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p><b>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</b></p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p><b>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</b></p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p><b>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</b></p>



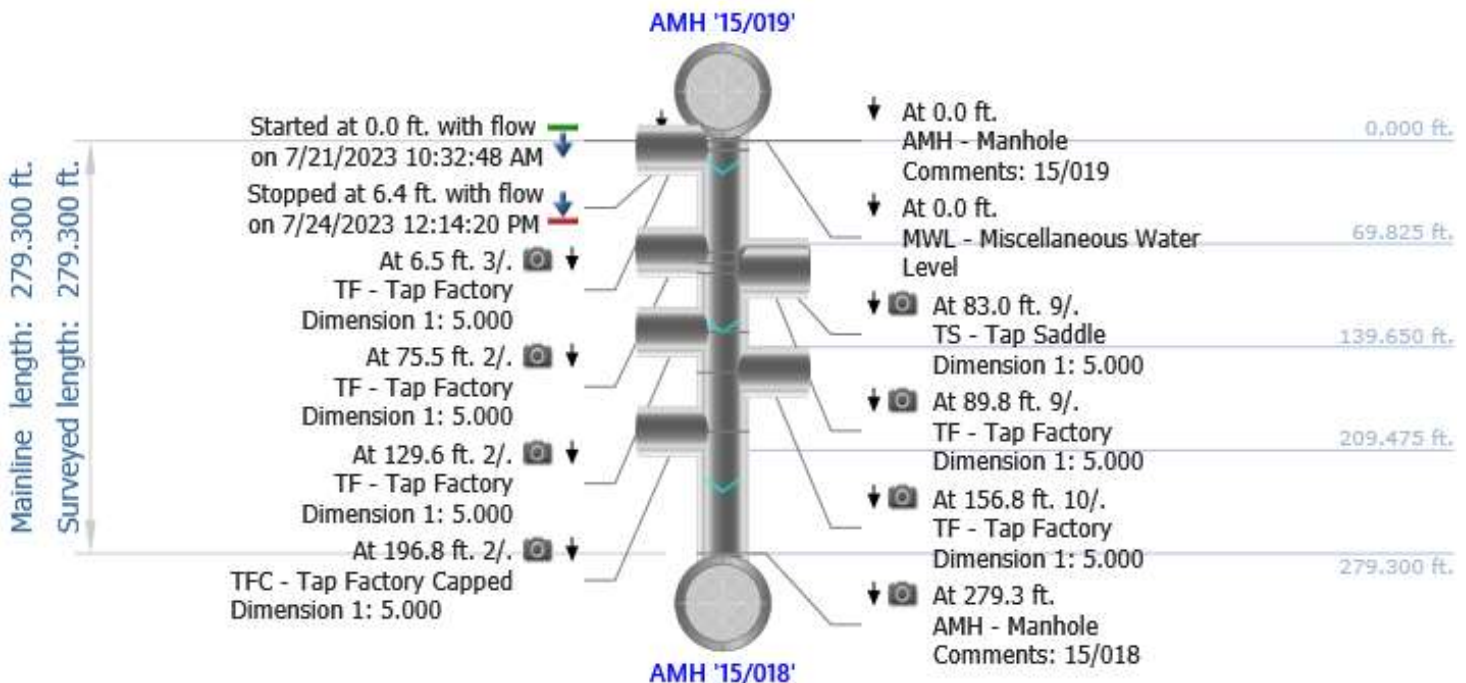


## NWMCC INSPECTION REPORT

Start date/time: 20230721 10:32	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/019 - 15/018
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/019	Downstream MH No: 15/018	Direction: D	Total length: 279.300 ft.	Length surveyed: 279.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230721 10:32	Pipe segment ref.: 15/019 - 15/018
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Photo: 15\_019-15\_018-20230721-114038.JPG  
At: 6.5 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_019-15\_018-20230721-114359.JPG  
At: 75.5 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_019-15\_018-20230721-114440.JPG  
At: 83 ft. 9/. TS - Tap Saddle  
Joint: No



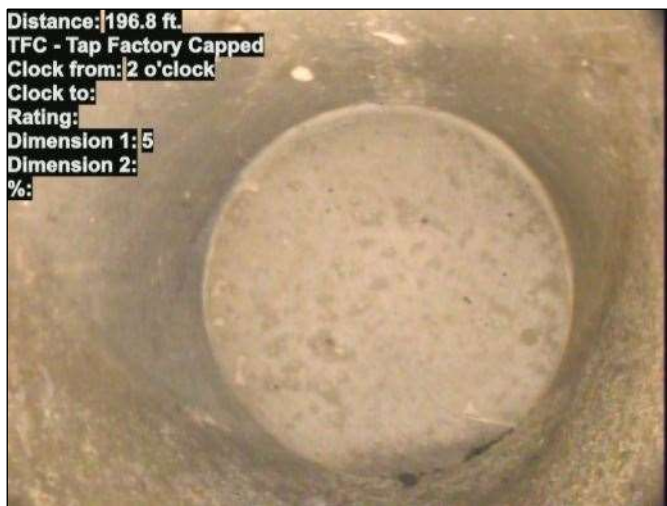
Photo: 15\_019-15\_018-20230721-114524.JPG  
At: 89.8 ft. 9/. TF - Tap Factory  
Joint: No



Distance: 129.6 ft.  
TF - Tap Factory  
Clock from: 2 o'clock  
Clock to:  
Rating: 5  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_019-15\_018-20230721-114702.JPG  
At: 129.6 ft. 2/. TF - Tap Factory  
Joint: No



Distance: 156.8 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating: 5  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_019-15\_018-20230721-114812.JPG  
At: 156.8 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 196.8 ft.  
TFC - Tap Factory Capped  
Clock from: 2 o'clock  
Clock to:  
Rating: 5  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_019-15\_018-20230721-115002.JPG  
At: 196.8 ft. 2/. TFC - Tap Factory Capped  
Joint: No



Distance: 279.3 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating: 5  
Dimension 1:  
Dimension 2:  
%:  
15/018  
Photo: 15\_019-15\_018-20230721-115327.JPG  
At: 279.3 ft. AMH - Manhole  
Joint: No 15/018





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

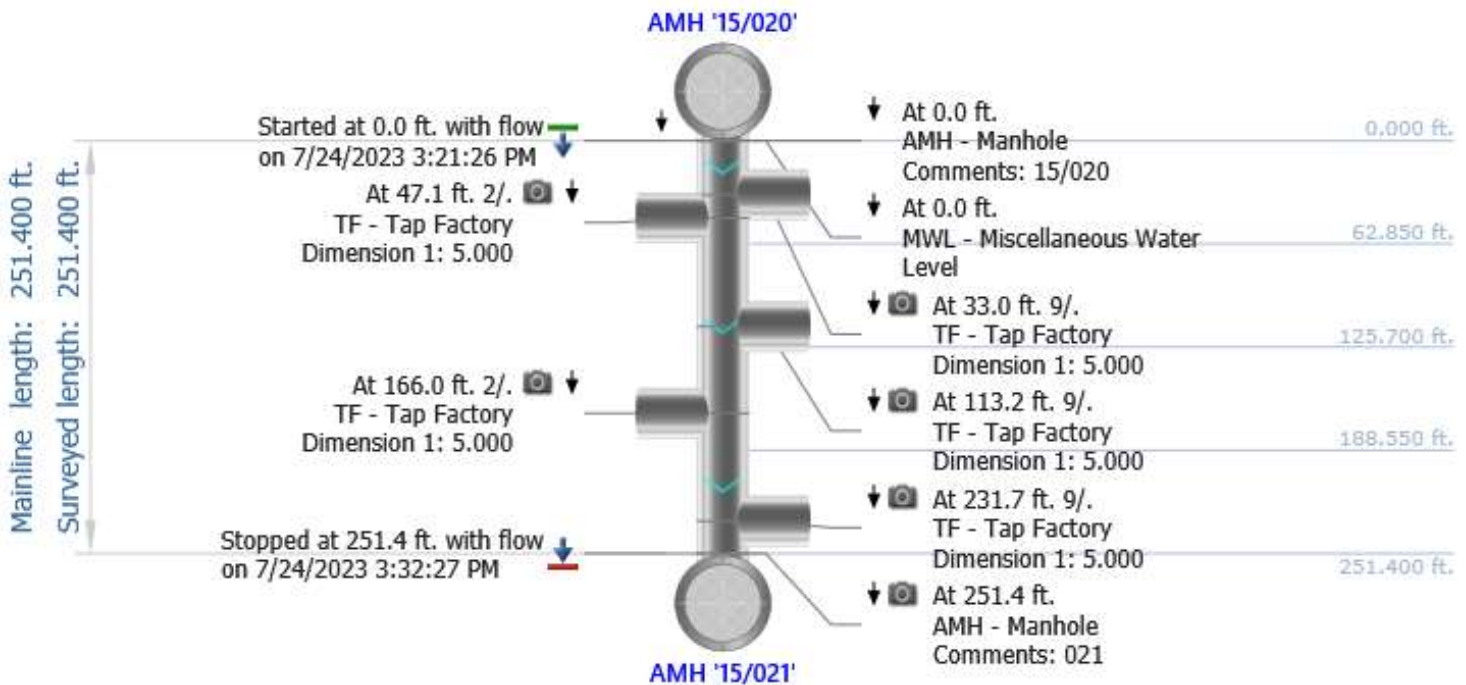


## NWMCC INSPECTION REPORT

Start date/time: 20230724 15:21	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/020 - 15/021
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: CHURCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/020	Downstream MH No: 15/021	Direction: D	Total length: 251.400 ft.	Length surveyed: 251.400 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: CHURCH ST	Start date/time: 20230724 15:21	Pipe segment ref.: 15/020 - 15/021
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Photo: 15\_020-15\_021-20230724-152349.JPG  
At: 33 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_020-15\_021-20230724-152430.JPG  
At: 47.1 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_020-15\_021-20230724-152641.JPG  
At: 113.2 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_020-15\_021-20230724-152826.JPG  
At: 166 ft. 2/. TF - Tap Factory  
Joint: No

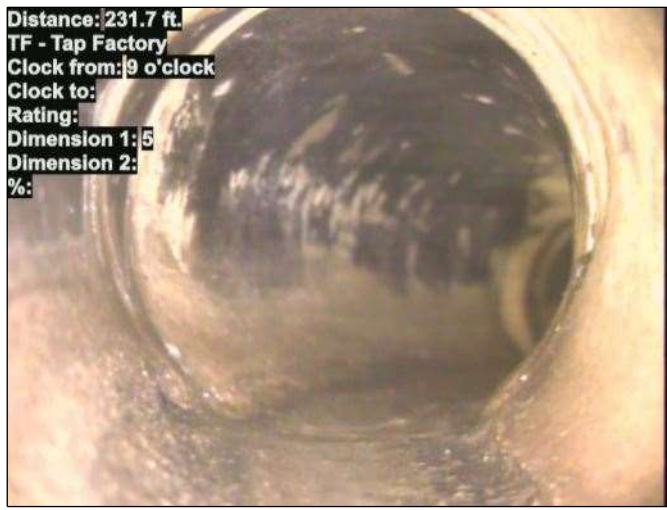


Photo: 15\_020-15\_021-20230724-153030.JPG  
At: 231.7 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_020-15\_021-20230724-153207.JPG  
At: 251.4 ft. AMH - Manhole  
Joint: No 021



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

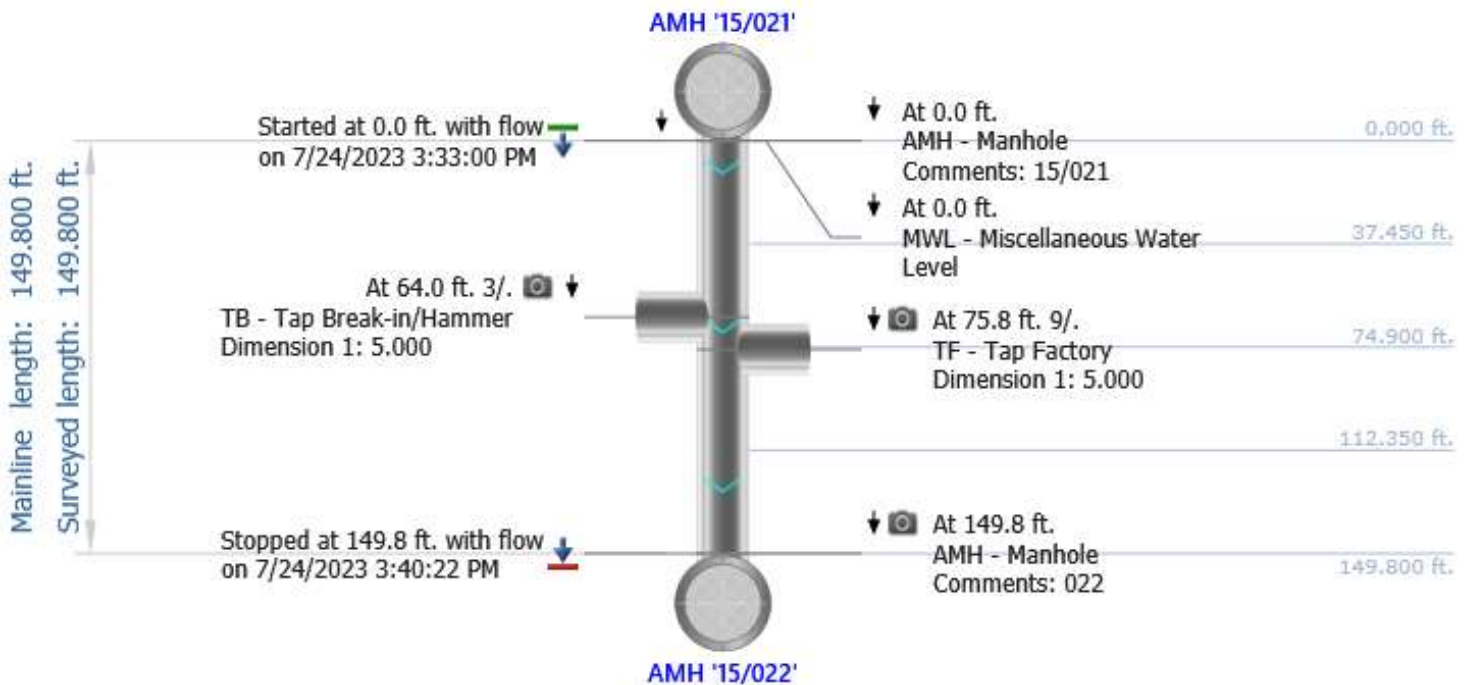


## NWMCC INSPECTION REPORT

Start date/time: 20230724 15:33	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/021 - 15/022
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD ST	Street: CHURCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/021	Downstream MH No: 15/022	Direction: D	Total length: 149.800 ft.	Length surveyed: 149.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD ST	Street: CHURCH ST	Start date/time: 20230724 15:33	Pipe segment ref.: 15/021 - 15/022
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Photo: 15\_021-15\_022-20230724-153618.JPG  
At: 64 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_021-15\_022-20230724-153703.JPG  
At: 75.8 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_021-15\_022-20230724-153957.JPG  
At: 149.8 ft. AMH - Manhole  
Joint: No 022





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

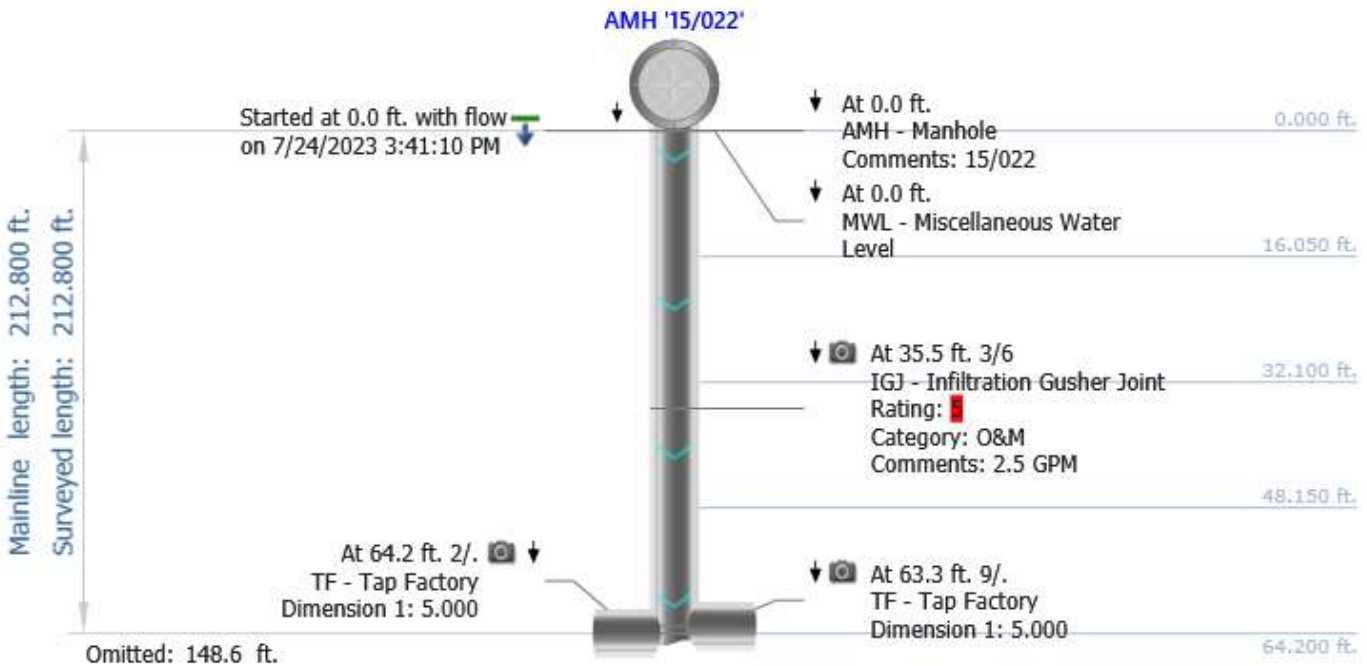


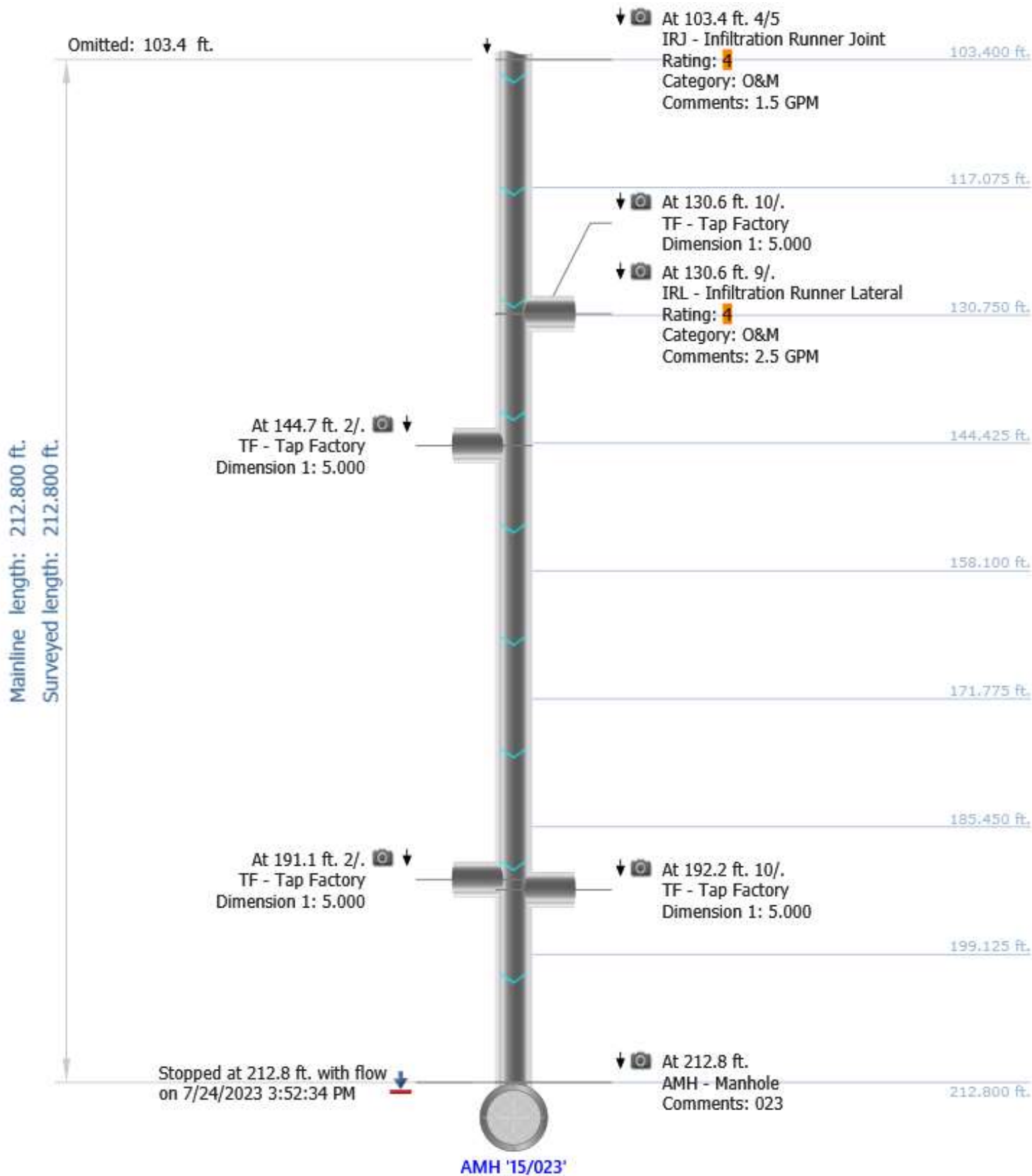
## NWMCC INSPECTION REPORT

Start date/time: 20230724 15:41	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/022 - 15/023
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: CHURCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/022	Downstream MH No: 15/023	Direction: D	Total length: 212.800 ft.	Length surveyed: 212.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	13	5142	4.3	13	4.3	5.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	8							
5	0	0				0	5							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: CHURCH ST	Start date/time: 20230724 15:41	Pipe segment ref.: 15/022 - 15/023
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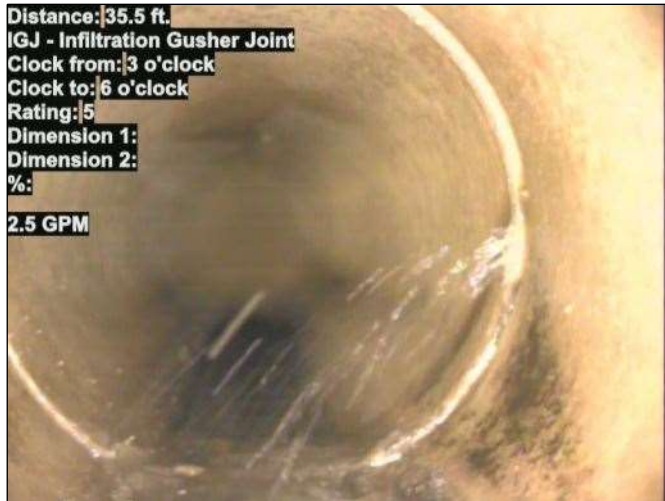


Photo: 15\_022-15\_023-20230724-154443.JPG  
At: 35.5 ft. 3/6 IGJ - Infiltration Gusher Joint  
Joint: Yes 2.5 GPM



Photo: 15\_022-15\_023-20230724-154553.JPG  
At: 63.3 ft. 9/ TF - Tap Factory  
Joint: No



Photo: 15\_022-15\_023-20230724-154609.JPG  
At: 64.2 ft. 2/ TF - Tap Factory  
Joint: No



Photo: 15\_022-15\_023-20230724-154742.JPG  
At: 103.4 ft. 4/5 IRJ - Infiltration Runner Joint  
Joint: Yes 1.5 GPM





Distance:|130.6 ft.  
TF - Tap Factory  
Clock from:|10 o'clock  
Clock to:  
Rating:  
Dimension 1:|5  
Dimension 2:  
%:

Photo: 15\_022-15\_023-20230724-154854.JPG  
At: 130.6 ft. 10/. TF - Tap Factory  
Joint: No



Distance:|130.6 ft.  
IRL - Infiltration Runner Lateral  
Clock from:|9 o'clock  
Clock to:  
Rating:|4  
Dimension 1:  
Dimension 2:  
%:  
2.5 GPM

Photo: 15\_022-15\_023-20230724-154903.JPG  
At: 130.6 ft. 9/. IRL - Infiltration Runner Lateral  
Joint: No 2.5 GPM



Distance:|144.7 ft.  
TF - Tap Factory  
Clock from:|2 o'clock  
Clock to:  
Rating:  
Dimension 1:|5  
Dimension 2:  
%:

Photo: 15\_022-15\_023-20230724-154945.JPG  
At: 144.7 ft. 2/. TF - Tap Factory  
Joint: No



Distance:|191.1 ft.  
TF - Tap Factory  
Clock from:|2 o'clock  
Clock to:  
Rating:  
Dimension 1:|5  
Dimension 2:  
%:

Photo: 15\_022-15\_023-20230724-155104.JPG  
At: 191.1 ft. 2/. TF - Tap Factory  
Joint: No



Distance:|192.2 ft.  
TF - Tap Factory  
Clock from:|10 o'clock  
Clock to:  
Rating:  
Dimension 1:|5  
Dimension 2:  
%:

Photo: 15\_022-15\_023-20230724-155121.JPG  
At: 192.2 ft. 10/. TF - Tap Factory  
Joint: No



Distance:|212.8 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
023

Photo: 15\_022-15\_023-20230724-155218.JPG  
At: 212.8 ft. AMH - Manhole  
Joint: No 023





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

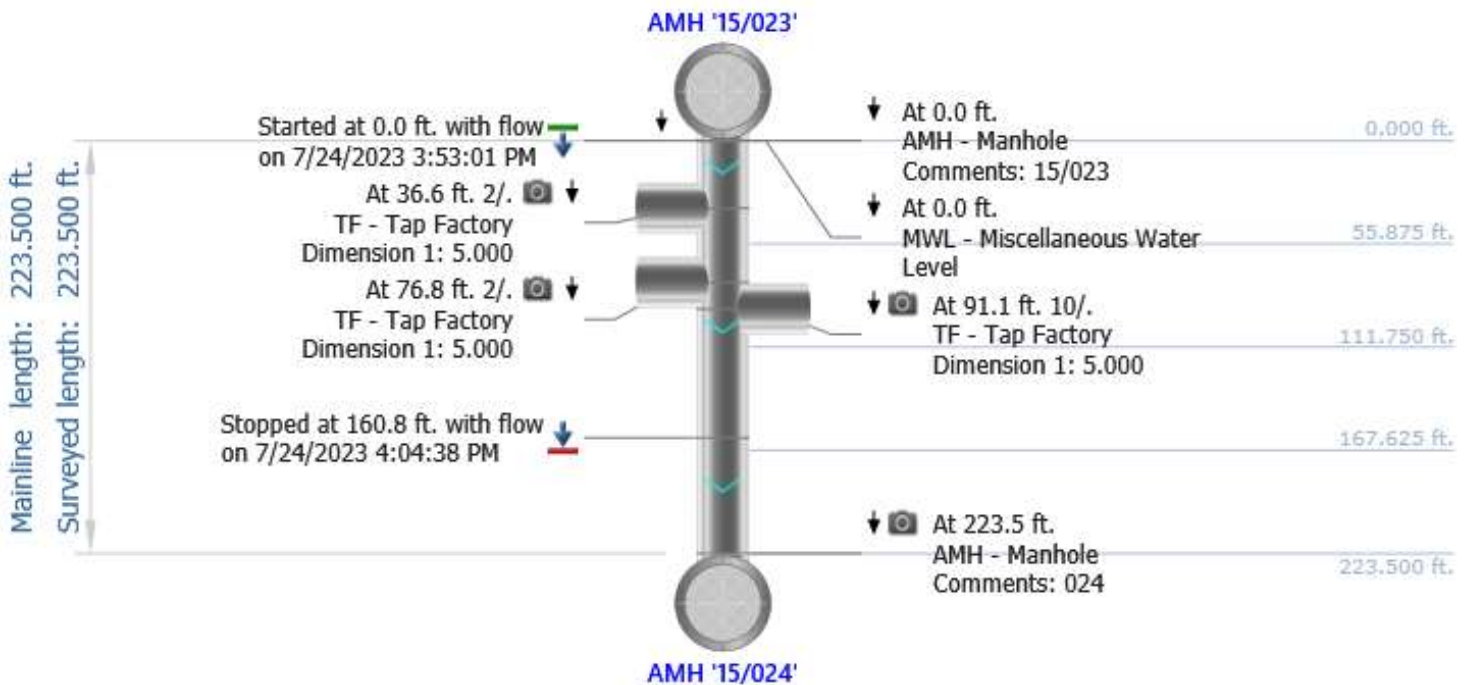


## NWMCC INSPECTION REPORT

Start date/time: 20230724 15:53	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/023 - 15/024
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: CHURCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/023	Downstream MH No: 15/024	Direction: D	Total length: 223.500 ft.	Length surveyed: 223.500 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: CHURCH ST	Start date/time: 20230724 15:53	Pipe segment ref.: 15/023 - 15/024
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Photo: 15\_023-15\_024-20230724-155519.JPG  
At: 36.6 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_023-15\_024-20230724-155643.JPG  
At: 76.8 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_023-15\_024-20230724-155732.JPG  
At: 91.1 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_023-15\_024-20230724-160303.JPG  
At: 223.5 ft. AMH - Manhole  
Joint: No 024



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

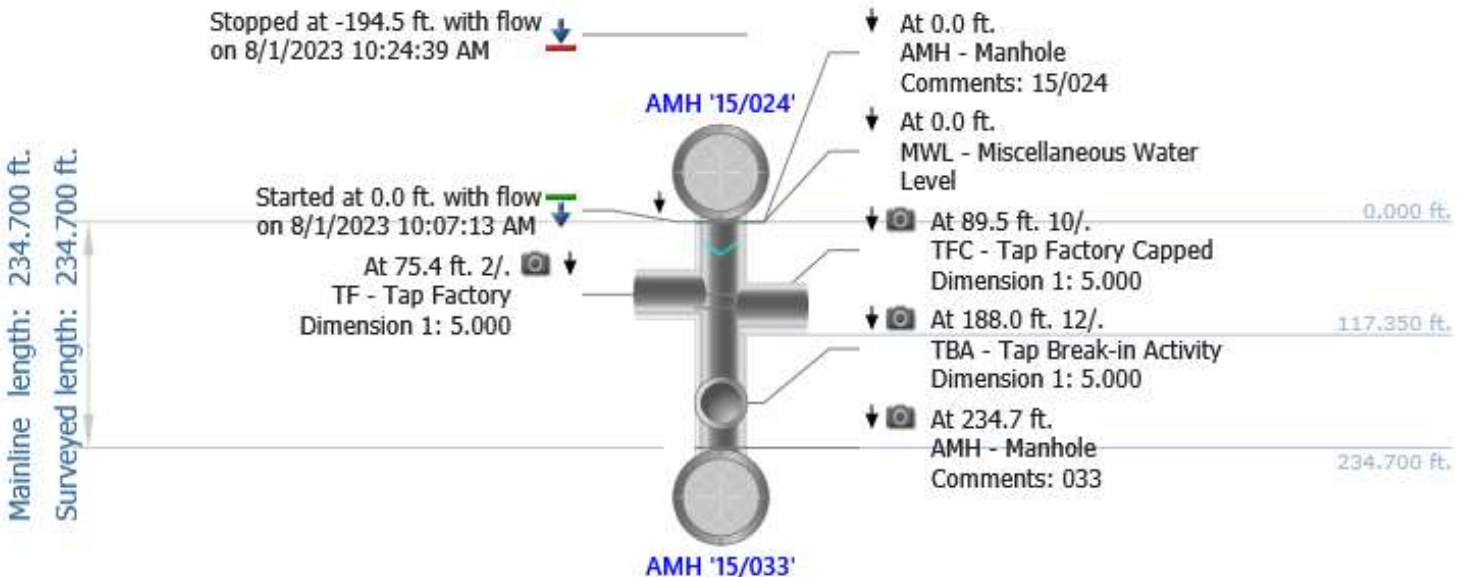


## NWMCC INSPECTION REPORT

Start date/time: 20230801 10:07	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/024 - 15/033
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FRENCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/024	Downstream MH No: 15/033	Direction: D	Total length: 234.700 ft.	Length surveyed: 234.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FRENCH ST	Start date/time: 20230801 10:07	Pipe segment ref.: 15/024 - 15/033
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Photo: 15\_024-15\_033-20230801-101123.JPG  
At: 75.4 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_024-15\_033-20230801-101217.JPG  
At: 89.5 ft. 10/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_024-15\_033-20230801-101537.JPG  
At: 188 ft. 12/. TBA - Tap Break-in Activity  
Joint: No



Photo: 15\_024-15\_033-20230801-101754.JPG  
At: 234.7 ft. AMH - Manhole  
Joint: No 033



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



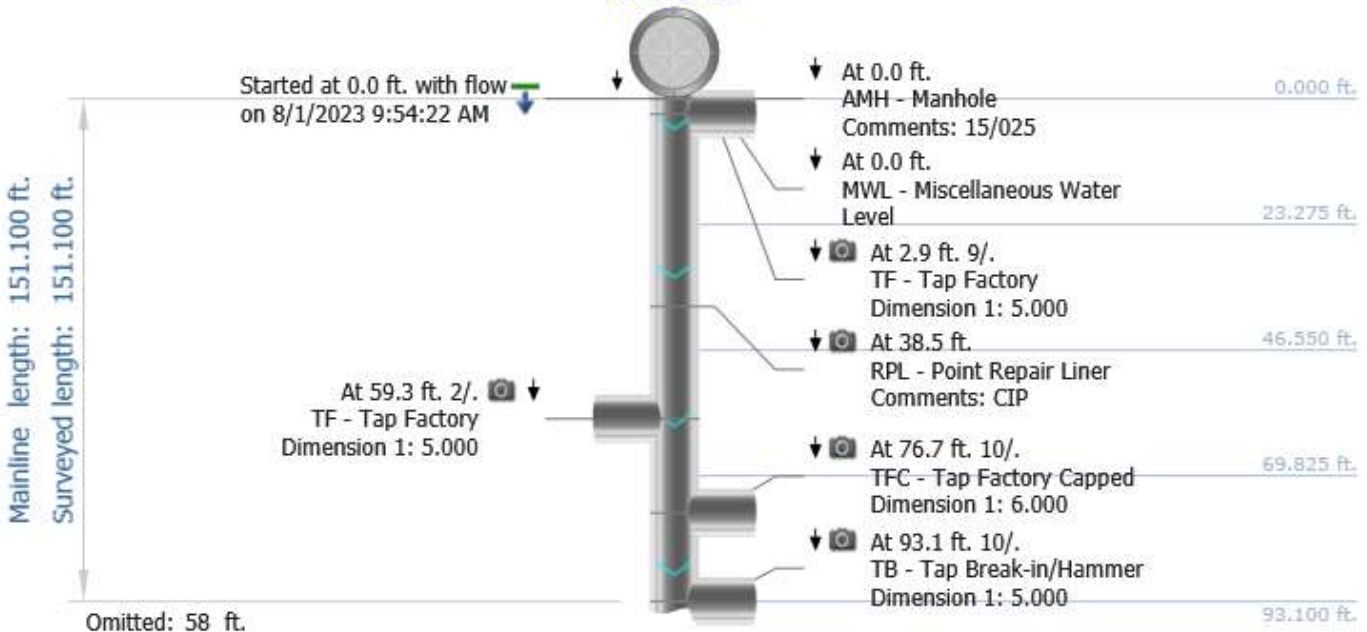
## NWMCC INSPECTION REPORT

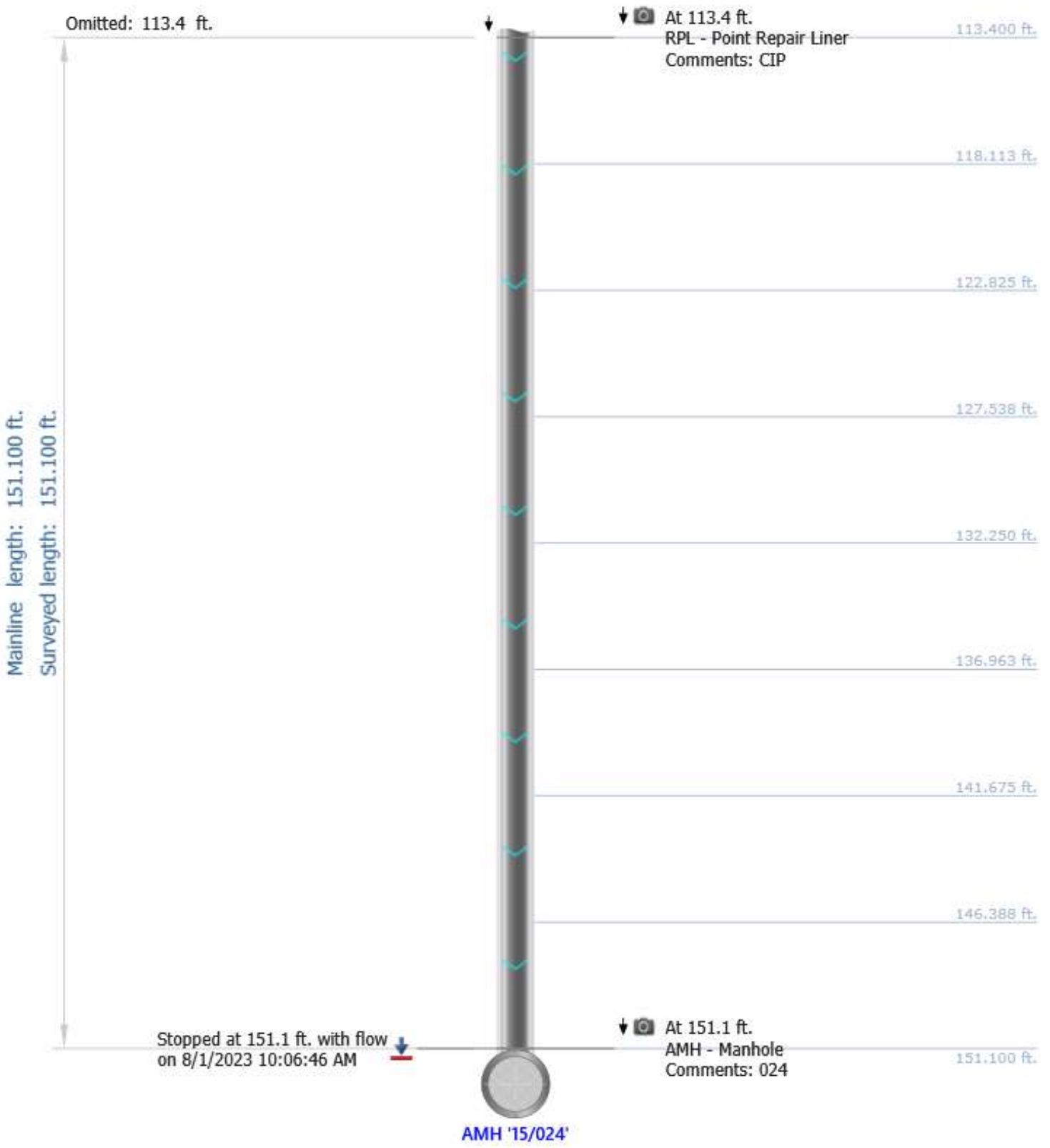
Start date/time: 20230801 09:54	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/025 - 15/024
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FRENCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/025	Downstream MH No: 15/024	Direction: D	Total length: 151.100 ft.	Length surveyed: 151.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/025'







# NWMCC INSPECTION REPORT

## Inspection Photos

City:	Street:	Start date/time:	Pipe segment ref.:
WESTWOOD MA	FRENCH ST	20230801 09:54	15/025 - 15/024



Photo: 15\_025-15\_024-20230801-095807.JPG  
At: 2.9 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_025-15\_024-20230801-095934.JPG  
At: 38.5 ft. RPL - Point Repair Liner  
Joint: No CIP



Photo: 15\_025-15\_024-20230801-100111.JPG  
At: 59.3 ft. 2/. TF - Tap Factory  
Joint: No

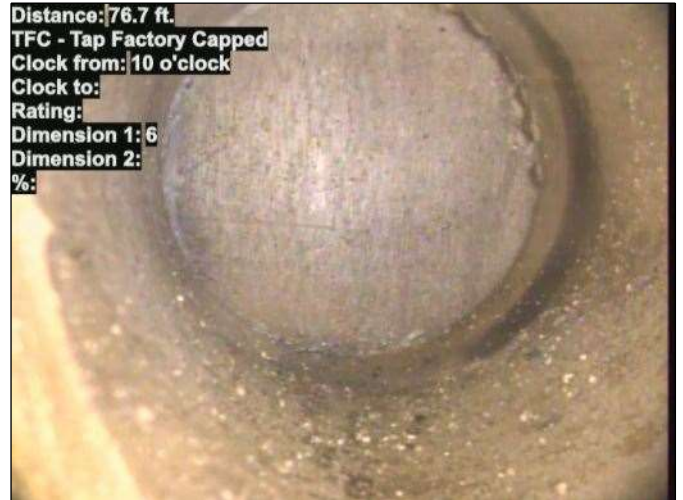


Photo: 15\_025-15\_024-20230801-100203.JPG  
At: 76.7 ft. 10/. TFC - Tap Factory Capped  
Joint: No





Distance: 93.1 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_025-15\_024-20230801-100247.JPG  
At: 93.1 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 113.4 ft.  
RPL - Point Repair Liner  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
CIP

Photo: 15\_025-15\_024-20230801-100340.JPG  
At: 113.4 ft. RPL - Point Repair Liner  
Joint: No CIP



Distance: 151.1 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
024

Photo: 15\_025-15\_024-20230801-100628.JPG  
At: 151.1 ft. AMH - Manhole  
Joint: No 024



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



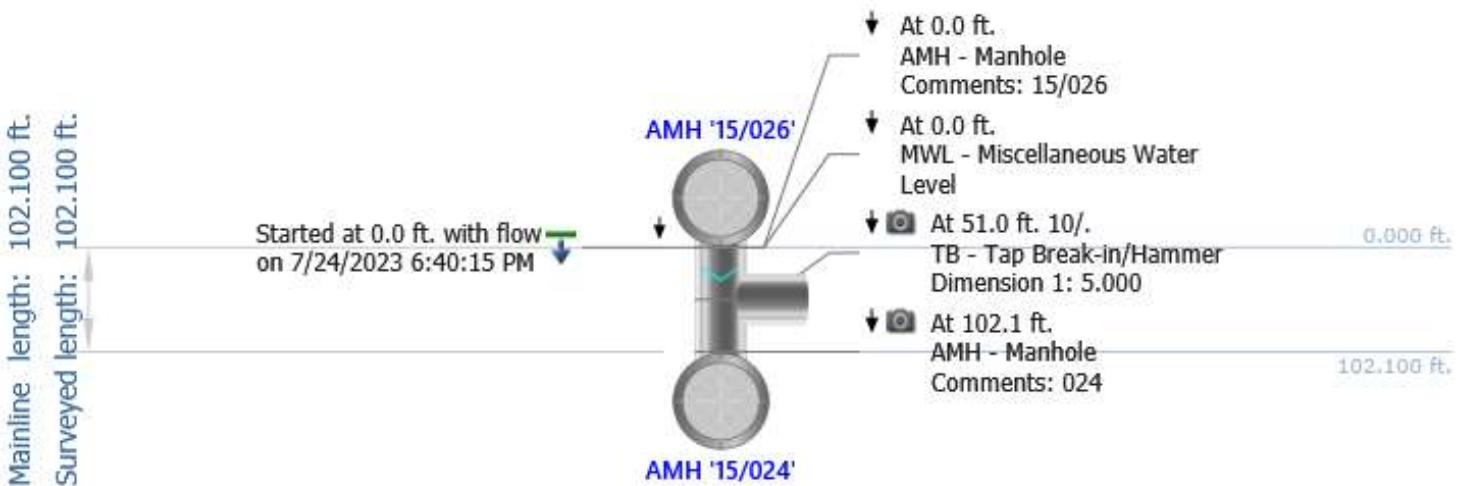
## NWMCC INSPECTION REPORT

Start date/time: 20230725 18:40	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/026 - 15/024
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: CHURCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/026	Downstream MH No: 15/024	Direction: D	Total length: 102.100 ft.	Length surveyed: 102.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

Stopped at -302.4 ft. with flow ↓ on 7/24/2023 7:12:02 PM



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: CHURCH ST	Start date/time: 20230725 18:40	Pipe segment ref.: 15/026 - 15/024
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Distance: 51.0 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_026-15\_024-20230725-184620.JPG  
At: 51 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 102.1 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
024

Photo: 15\_026-15\_024-20230725-185107.JPG  
At: 102.1 ft. AMH - Manhole  
Joint: No 024



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



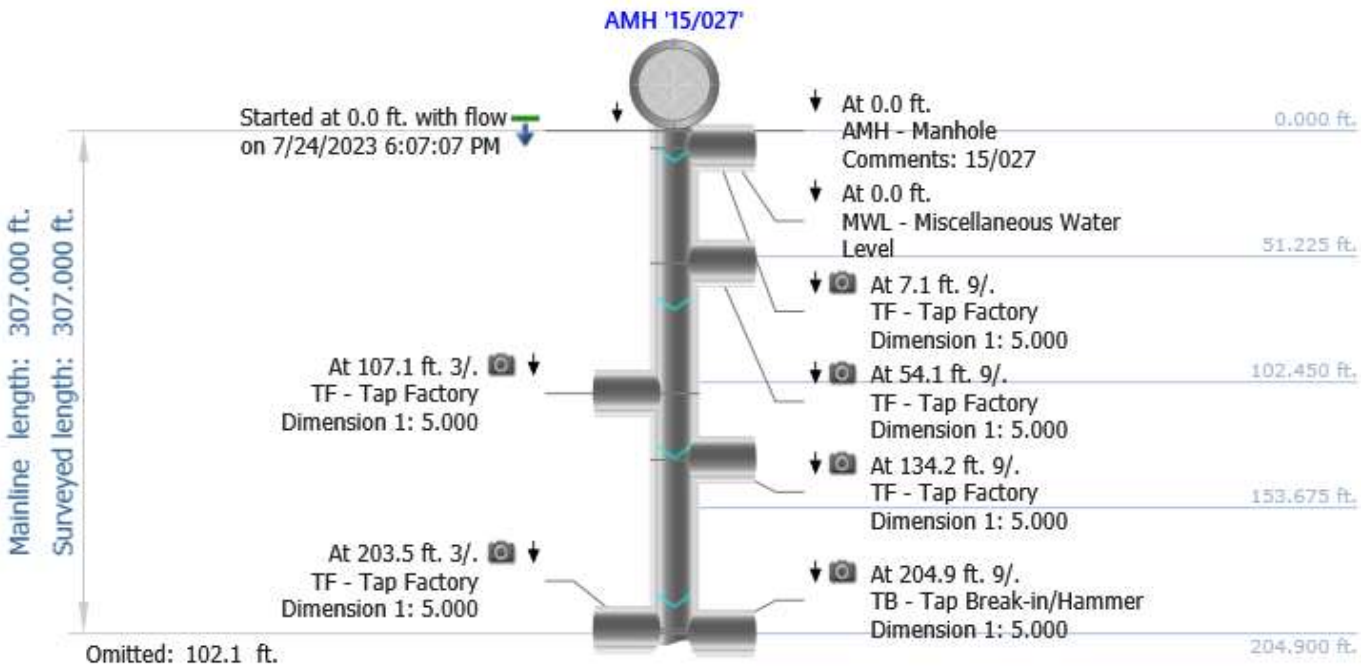


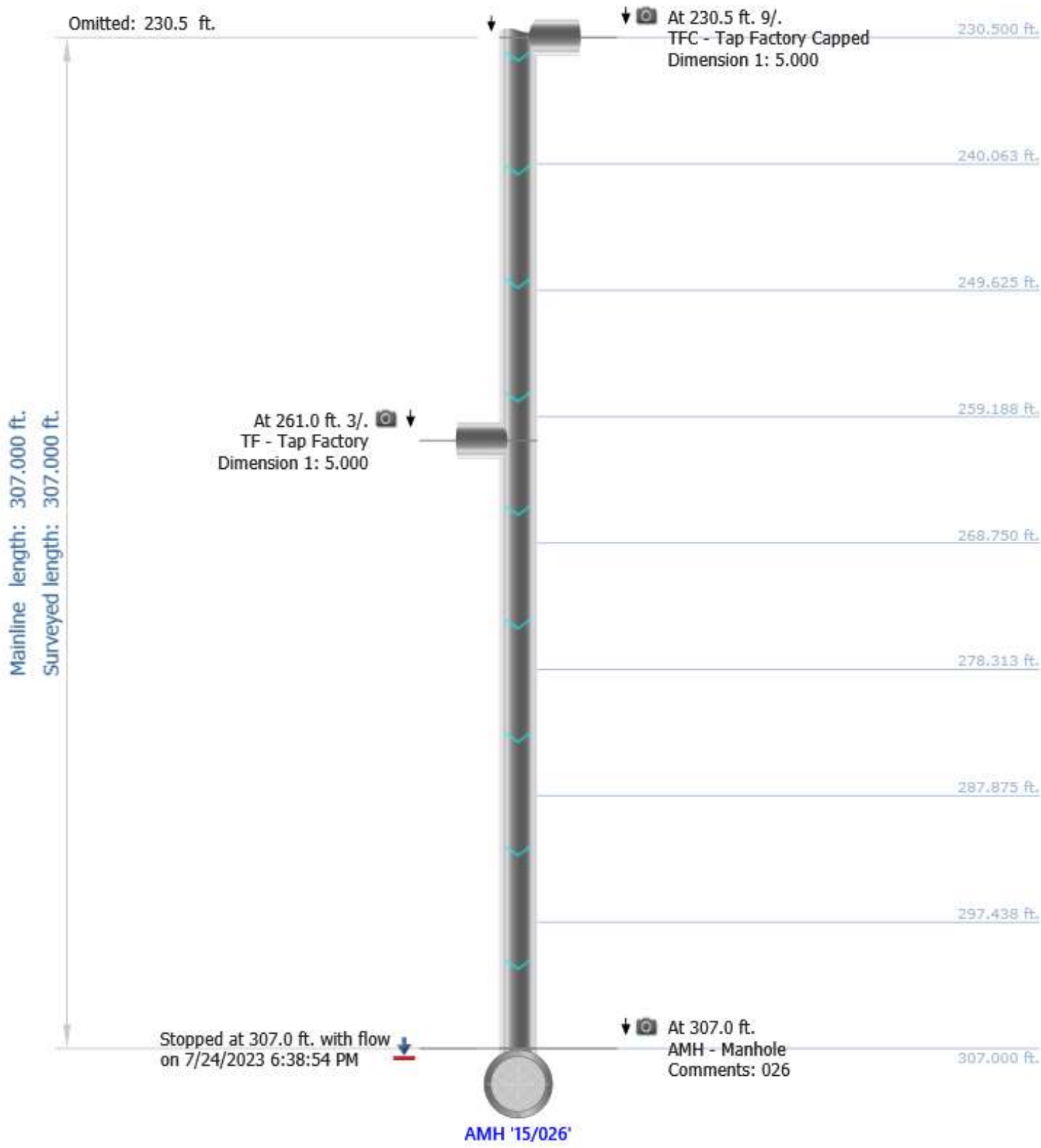
## NWMCC INSPECTION REPORT

Start date/time: 20230725 18:07	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/027 - 15/026
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: CHURCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/027	Downstream MH No: 15/026	Direction: D	Total length: 307.000 ft.	Length surveyed: 307.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: CHURCH ST	Start date/time: 20230725 18:07	Pipe segment ref.: 15/027 - 15/026
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Photo: 15\_027-15\_026-20230725-182351.JPG  
At: 7.1 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_027-15\_026-20230725-182640.JPG  
At: 54.1 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_027-15\_026-20230725-182849.JPG  
At: 107.1 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_027-15\_026-20230725-183054.JPG  
At: 134.2 ft. 9/. TF - Tap Factory  
Joint: No





Distance: 203.5 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_027-15\_026-20230725-183326.JPG  
At: 203.5 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 204.9 ft.  
TB - Tap Break-in/Hammer  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_027-15\_026-20230725-183345.JPG  
At: 204.9 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 230.5 ft.  
TFC - Tap Factory Capped  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_027-15\_026-20230725-183456.JPG  
At: 230.5 ft. 9/. TFC - Tap Factory Capped  
Joint: No



Distance: 261.0 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_027-15\_026-20230725-183629.JPG  
At: 261 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 307.0 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

026

Photo: 15\_027-15\_026-20230725-183833.JPG  
At: 307 ft. AMH - Manhole  
Joint: No 026



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p><b>Minor Defects - Failure unlikely in the foreseeable future</b></p>
<p><u>2:</u>    <b>Good Condition</b></p> <p><b>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</b></p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p><b>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</b></p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p><b>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</b></p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p><b>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</b></p>



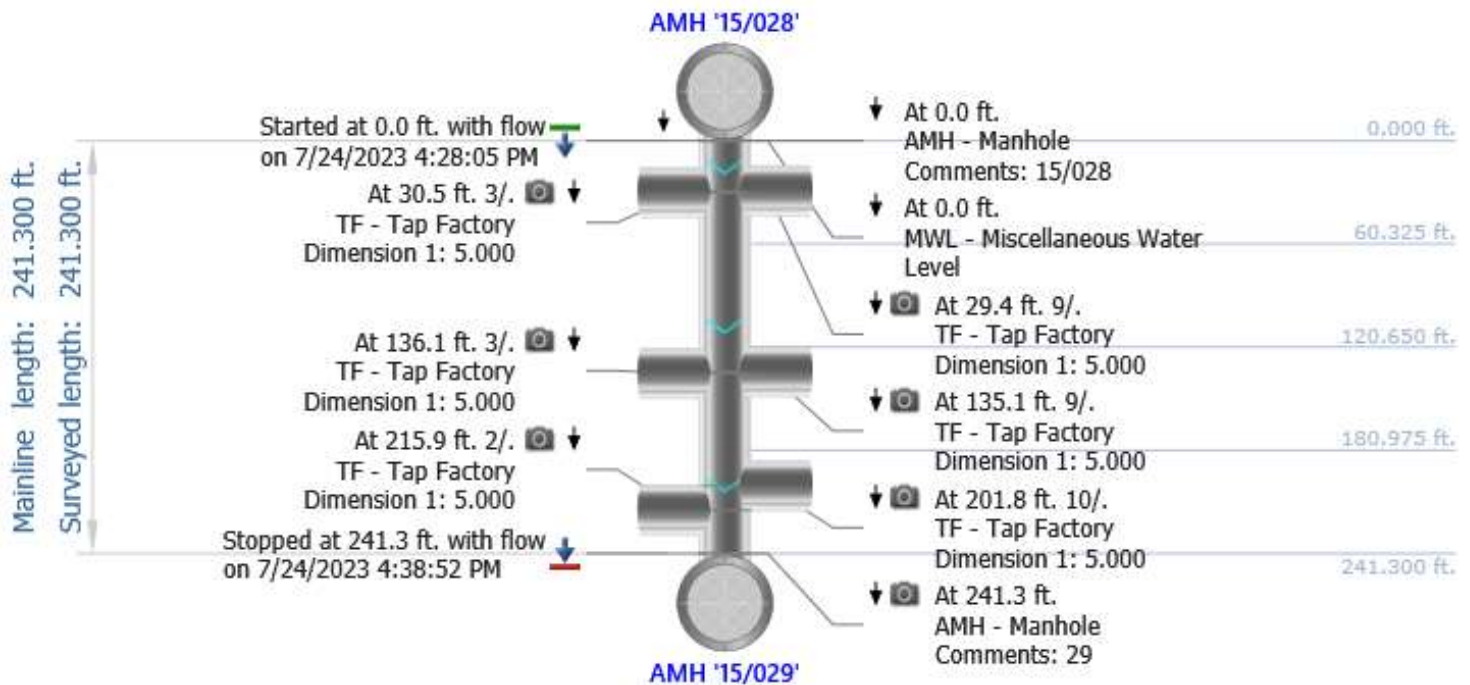


## NWMCC INSPECTION REPORT

Start date/time: 20230724 16:28	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/028 - 15/029
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/028	Downstream MH No: 15/029	Direction: D	Total length: 241.300 ft.	Length surveyed: 241.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230724 16:28	Pipe segment ref.: 15/028 - 15/029
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Photo: 15\_028-15\_029-20230724-163014.JPG  
At: 29.4 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_028-15\_029-20230724-163112.JPG  
At: 30.5 ft. 3/. TF - Tap Factory  
Joint: No



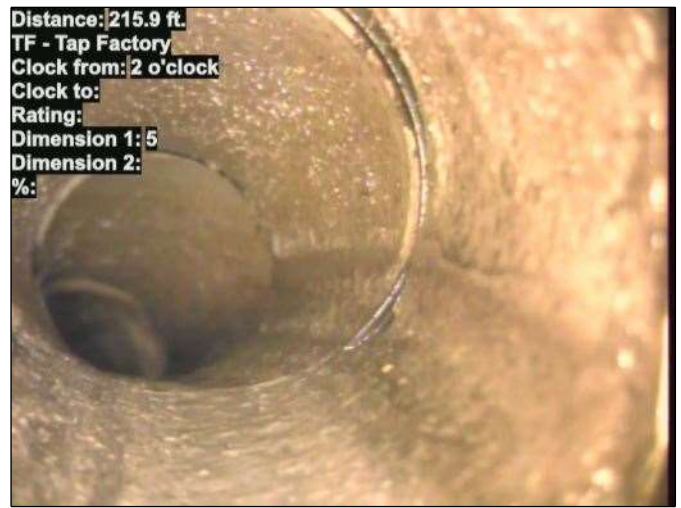
Photo: 15\_028-15\_029-20230724-163402.JPG  
At: 135.1 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_028-15\_029-20230724-163421.JPG  
At: 136.1 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 201.8 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_028-15\_029-20230724-163643.JPG  
At: 201.8 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 215.9 ft.  
TF - Tap Factory  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_028-15\_029-20230724-163729.JPG  
At: 215.9 ft. 2/. TF - Tap Factory  
Joint: No



Distance: 241.3 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
29  
Photo: 15\_028-15\_029-20230724-163834.JPG  
At: 241.3 ft. AMH - Manhole  
Joint: No 29



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>





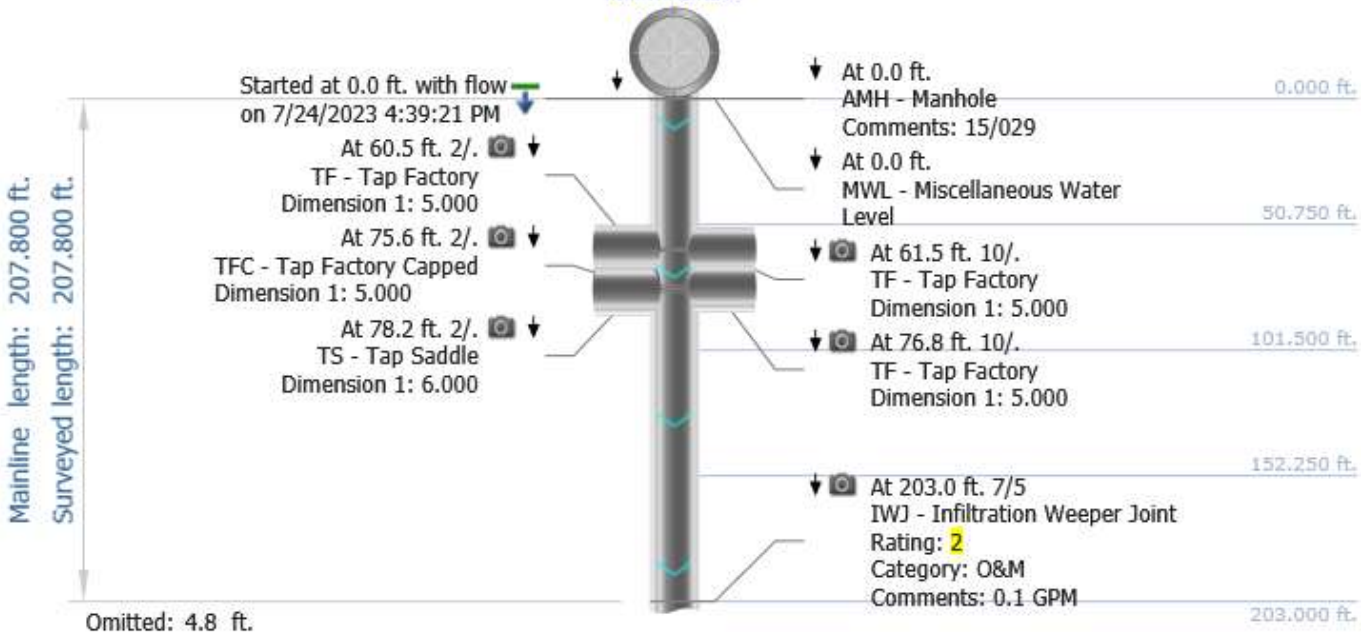
## NWMCC INSPECTION REPORT

Start date/time: 20230724 16:39	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/029 - 15/030
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/029	Downstream MH No: 15/030	Direction: D	Total length: 207.800 ft.	Length surveyed: 207.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	2	2100	2.0	2	2.0	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/029'

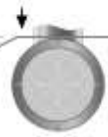




Mainline length: 207.800 ft.  
Surveyed length: 207.800 ft.

Omitted: 207.8 ft.

Stopped at 207.8 ft. with flow  
on 7/24/2023 4:48:47 PM



AMH '15/030'



At 207.8 ft.  
AMH - Manhole  
Comments: 030

207.800 ft.  
207.800 ft.

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230724 16:39	Pipe segment ref.: 15/029 - 15/030
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Photo: 15\_029-15\_030-20230724-164204.JPG  
At: 60.5 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_029-15\_030-20230724-164223.JPG  
At: 61.5 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_029-15\_030-20230724-164310.JPG  
At: 75.6 ft. 2/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_029-15\_030-20230724-164331.JPG  
At: 76.8 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 78.2 ft.  
TS - Tap Saddle  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 6  
Dimension 2:  
%:

Photo: 15\_029-15\_030-20230724-164402.JPG  
At: 78.2 ft. 2/ TS - Tap Saddle  
Joint: No



Distance: 203.0 ft.  
IWJ - Infiltration Weeper Joint  
Clock from: 7 o'clock  
Clock to: 5 o'clock  
Rating: 2  
Dimension 1:  
Dimension 2:  
%:  
0.1 GPM

Photo: 15\_029-15\_030-20230724-164719.JPG  
At: 203 ft. 7/5 IWJ - Infiltration Weeper Joint  
Joint: Yes 0.1 GPM



Distance: 207.8 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
030

Photo: 15\_029-15\_030-20230724-164805.JPG  
At: 207.8 ft. AMH - Manhole  
Joint: No 030



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

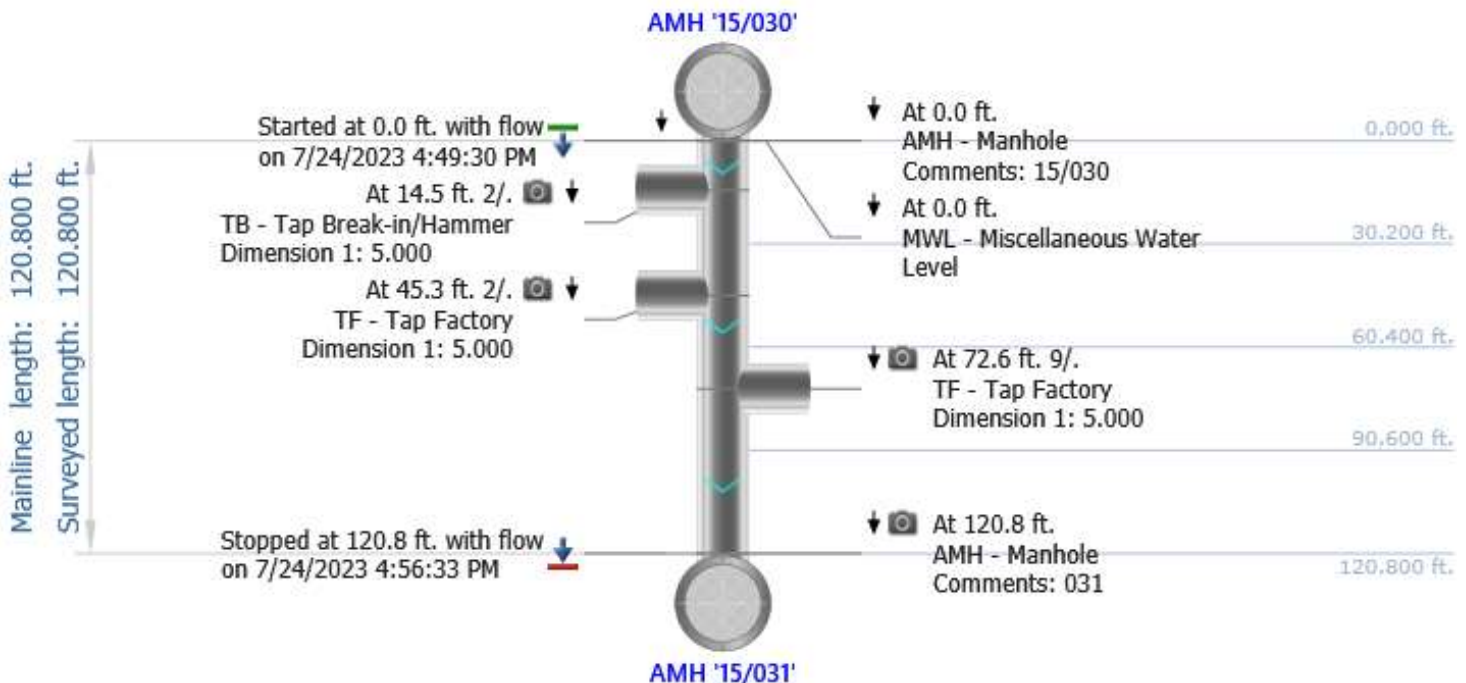


## NWMCC INSPECTION REPORT

Start date/time: 20230724 16:49	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/030 - 15/031
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/030	Downstream MH No: 15/031	Direction: D	Total length: 120.800 ft.	Length surveyed: 120.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230724 16:49	Pipe segment ref.: 15/030 - 15/031
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Photo: 15\_030-15\_031-20230724-165146.JPG  
At: 14.5 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_030-15\_031-20230724-165253.JPG  
At: 45.3 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_030-15\_031-20230724-165404.JPG  
At: 72.6 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_030-15\_031-20230724-165551.JPG  
At: 120.8 ft. AMH - Manhole  
Joint: No 031



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

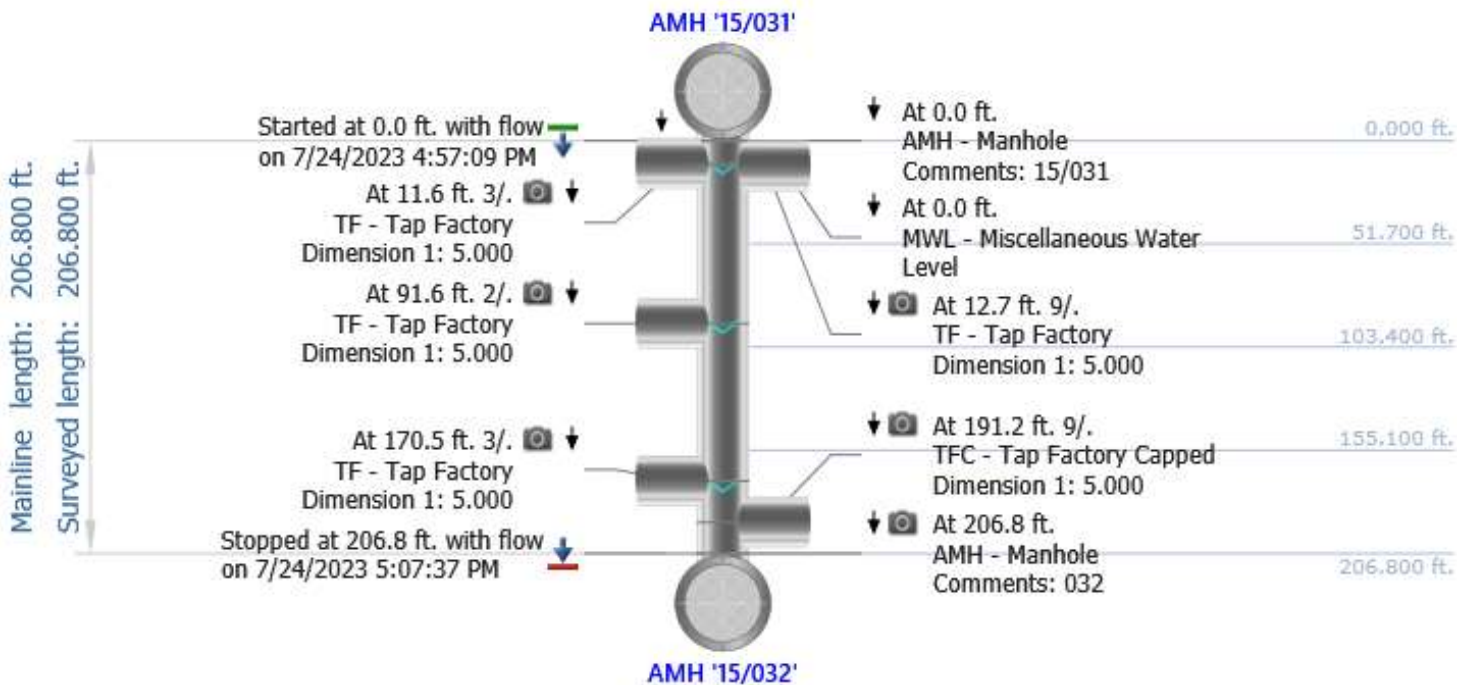


## NWMCC INSPECTION REPORT

Start date/time: 20230724 16:57	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/031 - 15/032
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/031	Downstream MH No: 15/032	Direction: D	Total length: 206.800 ft.	Length surveyed: 206.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230724 16:57	Pipe segment ref.: 15/031 - 15/032
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Photo: 15\_031-15\_032-20230724-165831.JPG  
At: 11.6 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_031-15\_032-20230724-165851.JPG  
At: 12.7 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_031-15\_032-20230724-170120.JPG  
At: 91.6 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_031-15\_032-20230724-170347.JPG  
At: 170.5 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 191.2 ft.  
TFC - Tap Factory Capped  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_031-15\_032-20230724-170524.JPG  
At: 191.2 ft. 9/. TFC - Tap Factory Capped  
Joint: No



Distance: 206.8 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

032

Photo: 15\_031-15\_032-20230724-170716.JPG  
At: 206.8 ft. AMH - Manhole  
Joint: No 032





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

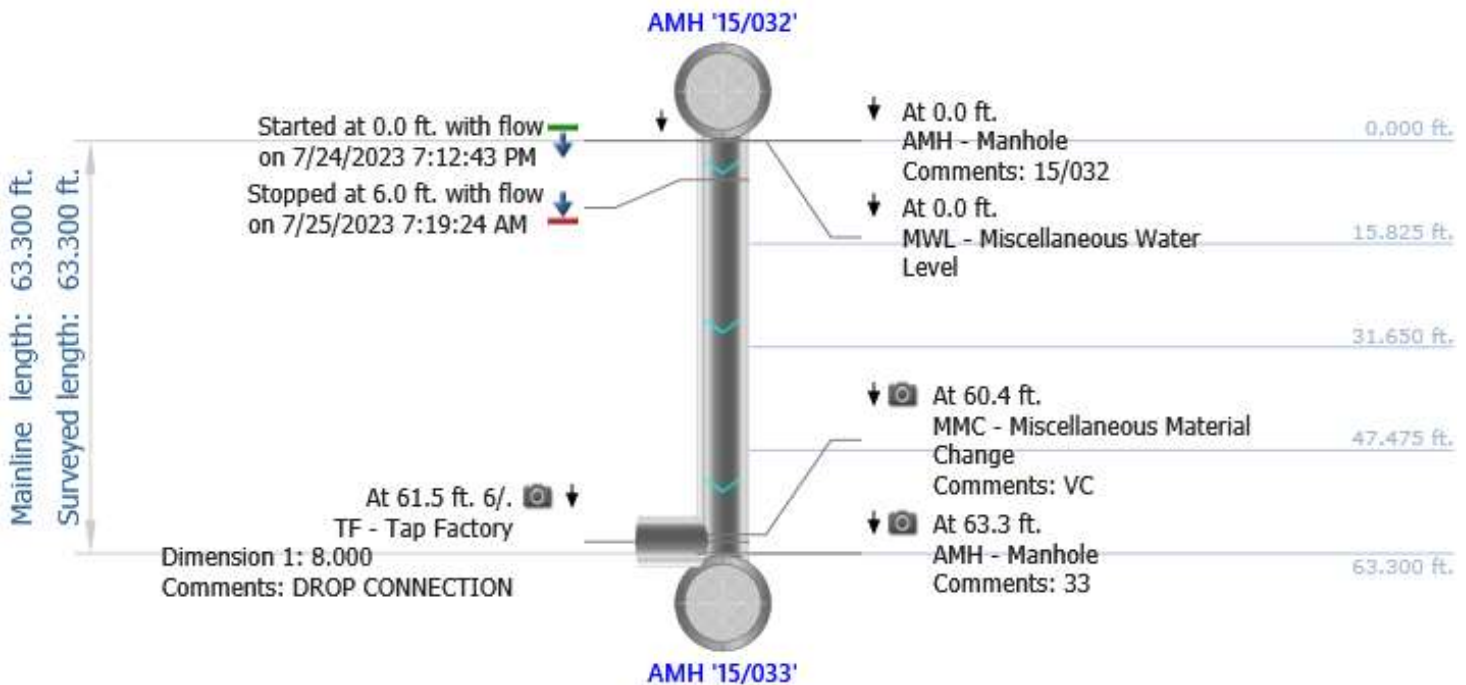


## NWMCC INSPECTION REPORT

Start date/time: 20230725 19:12	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/032 - 15/033
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/032	Downstream MH No: 15/033	Direction: D	Total length: 63.300 ft.	Length surveyed: 63.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230725 19:12	Pipe segment ref.: 15/032 - 15/033
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Photo: 15\_032-15\_033-20230725-071659.JPG  
At: 60.4 ft. MMC - Miscellaneous Material Change  
Joint: No VC



Photo: 15\_032-15\_033-20230725-071722.JPG  
At: 61.5 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION



Photo: 15\_032-15\_033-20230725-071758.JPG  
At: 63.3 ft. AMH - Manhole  
Joint: No 33



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



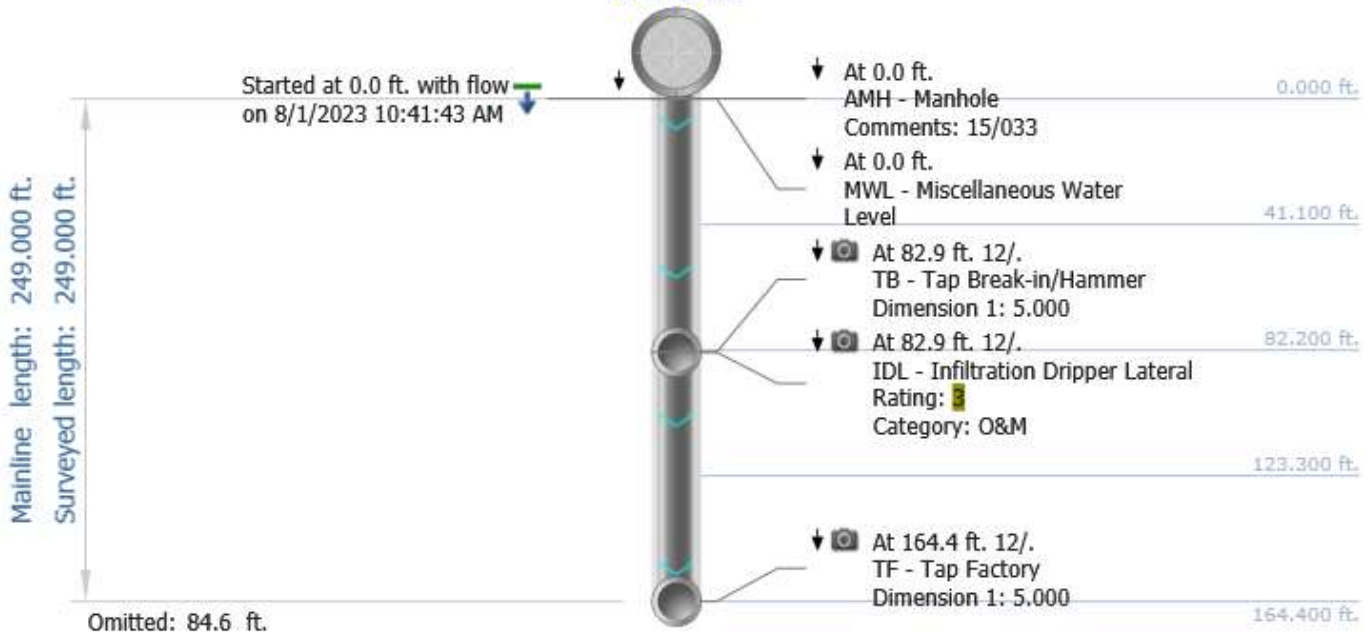
## NWMCC INSPECTION REPORT

Start date/time: 20230801 10:41	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/033 - 15/034
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/033	Downstream MH No: 15/034	Direction: D	Total length: 249.000 ft.	Length surveyed: 249.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

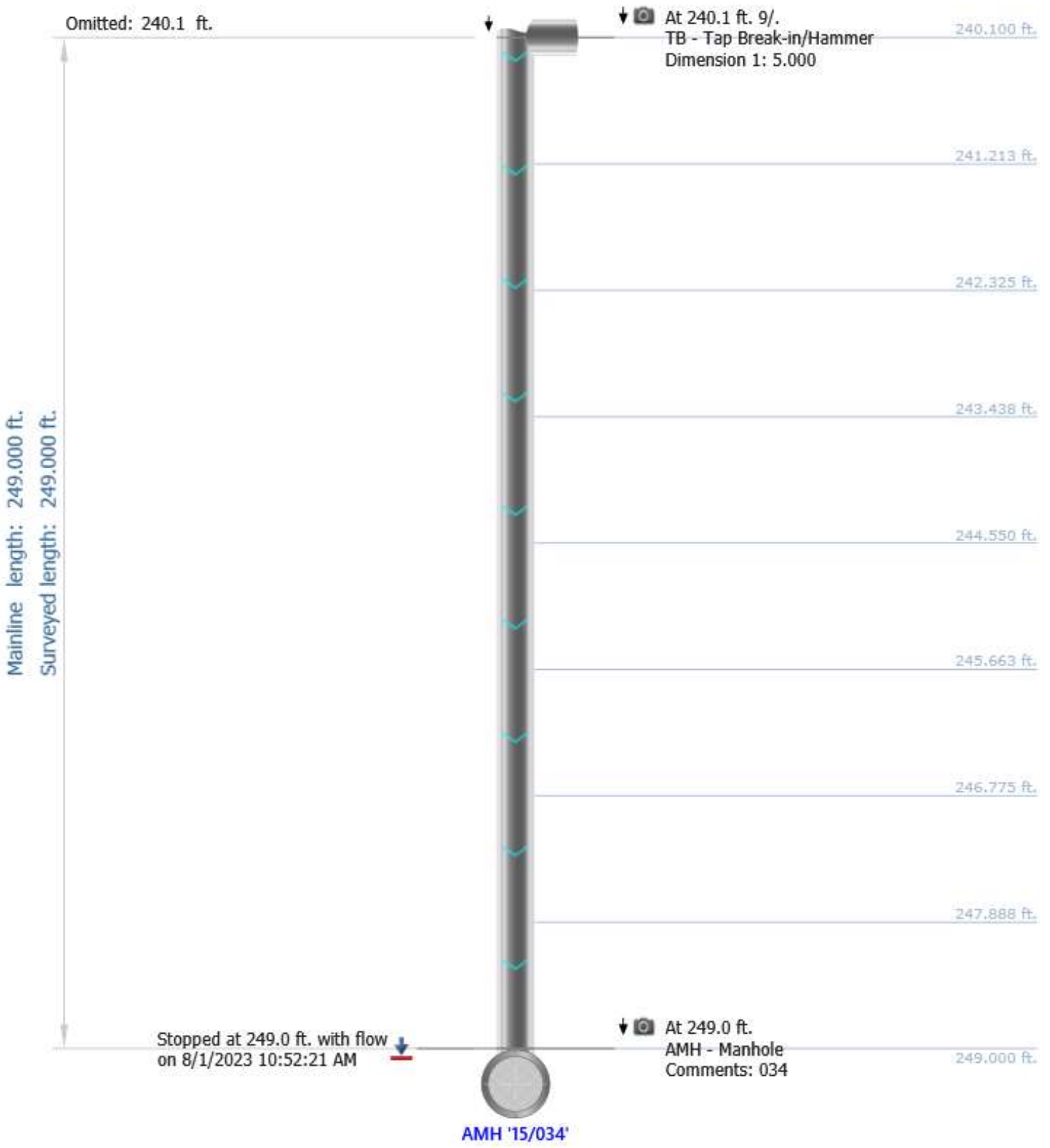
### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	3	3100	3.0	3	3.0	3.1	
2	0	0				0	0							
3	0	0				0	3							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/033'







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230801 10:41	Pipe segment ref.: 15/033 - 15/034
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Photo: 15\_033-15\_034-20230801-104532.JPG  
At: 82.9 ft. 12/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_033-15\_034-20230801-104544.JPG  
At: 82.9 ft. 12/. IDL - Infiltration Dripper Lateral  
Joint: No



Photo: 15\_033-15\_034-20230801-104820.JPG  
At: 164.4 ft. 12/. TF - Tap Factory  
Joint: No



Photo: 15\_033-15\_034-20230801-105044.JPG  
At: 240.1 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_033-15\_034-20230801-105135.JPG

At: 249 ft. AMH - Manhole

Joint: No 034



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

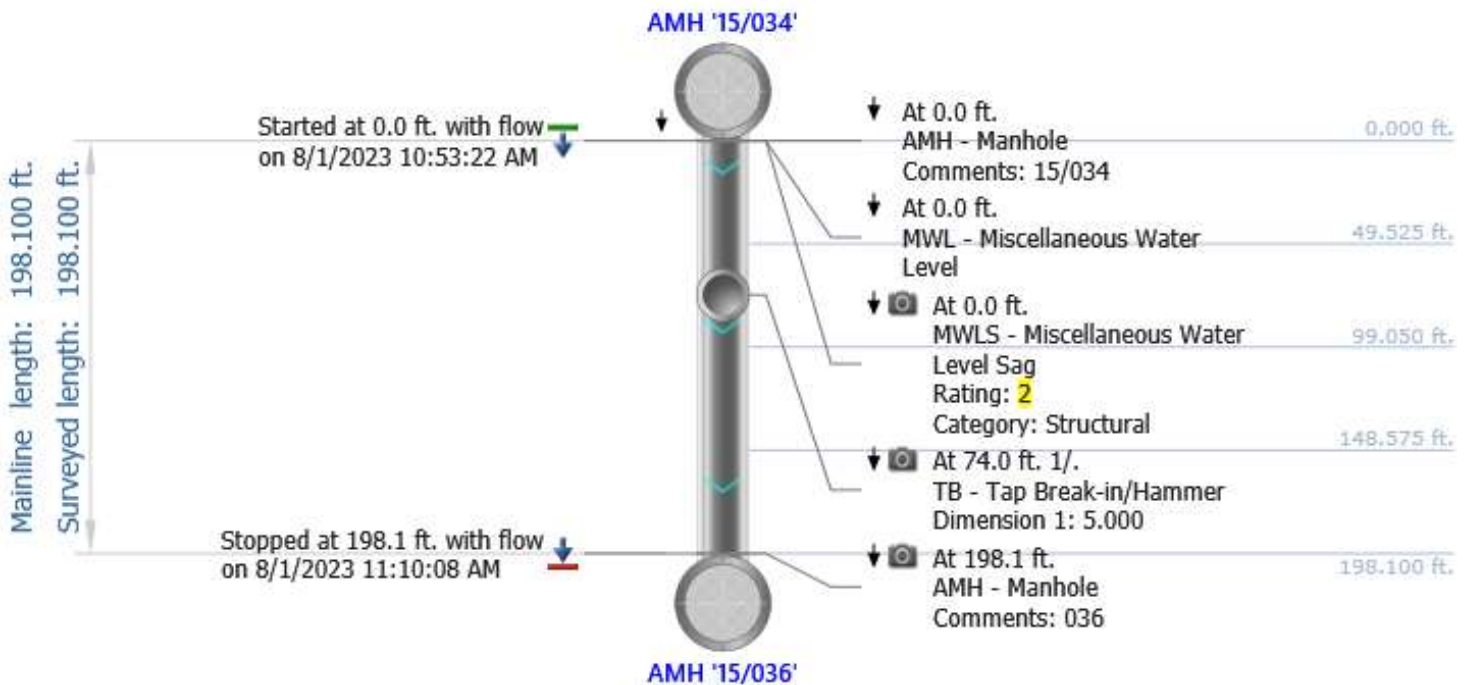


## NWMCC INSPECTION REPORT

Start date/time: 20230801 10:53	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/034 - 15/036
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/034	Downstream MH No: 15/036	Direction: D	Total length: 198.100 ft.	Length surveyed: 198.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230801 10:53	Pipe segment ref.: 15/034 - 15/036
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Photo: 15\_034-15\_036-20230801-105433.JPG  
At: 0 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 25 %



Photo: 15\_034-15\_036-20230801-105708.JPG  
At: 74 ft. 1/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_034-15\_036-20230801-110135.JPG  
At: 198.1 ft. AMH - Manhole  
Joint: No 036



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



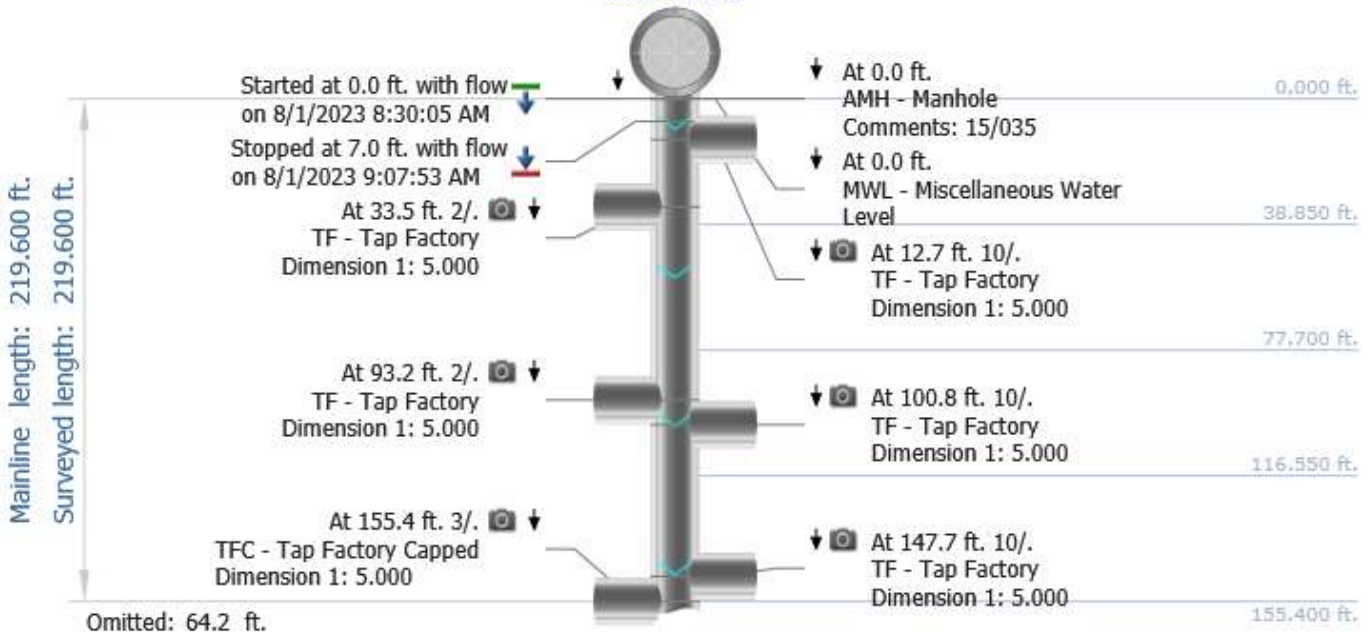
## NWMCC INSPECTION REPORT

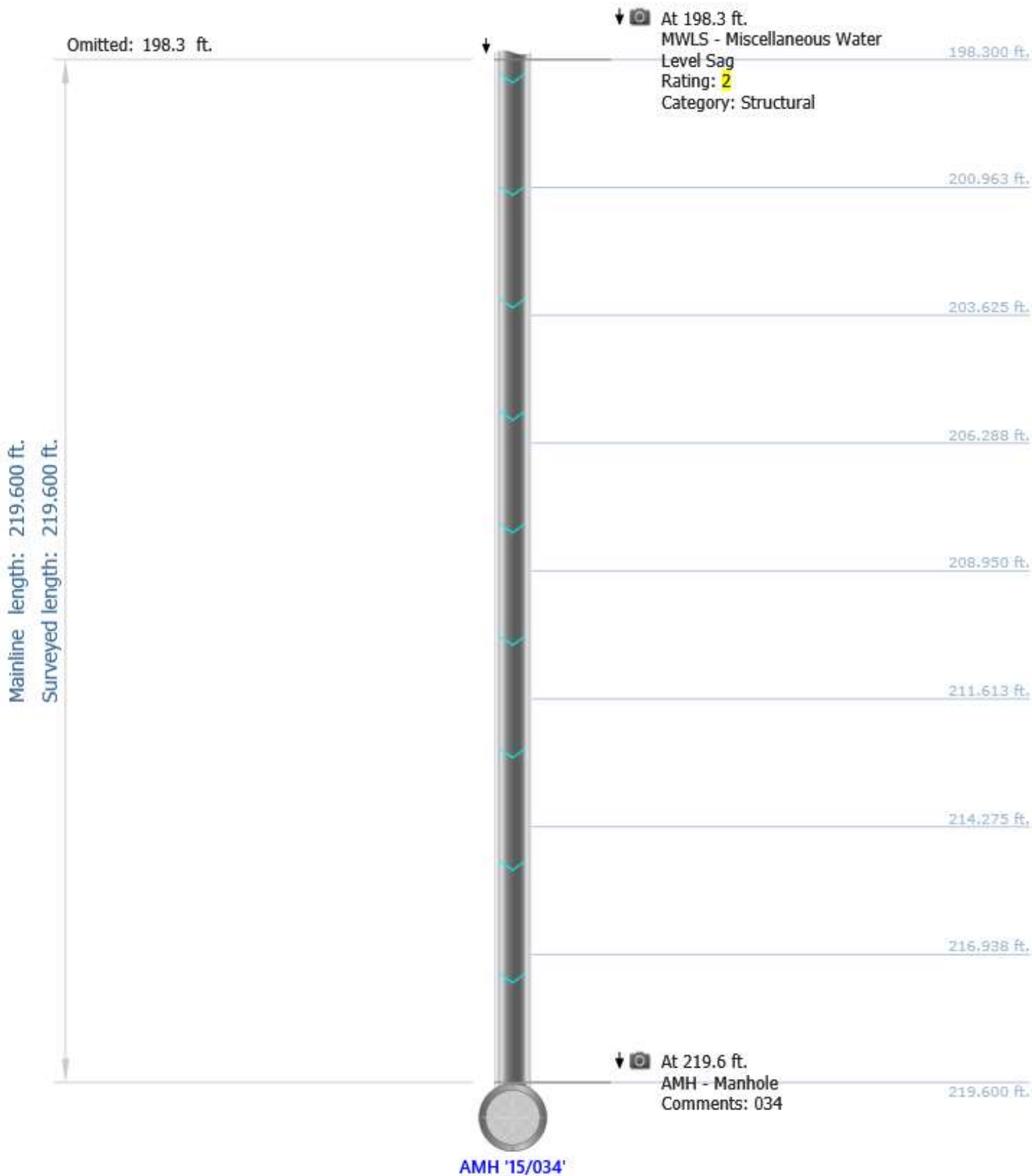
Start date/time: 20230801 08:30	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/035 - 15/034
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: SHORT ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/035	Downstream MH No: 15/034	Direction: D	Total length: 219.600 ft.	Length surveyed: 219.600 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/035'







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: SHORT ST	Start date/time: 20230801 08:30	Pipe segment ref.: 15/035 - 15/034
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Photo: 15\_035-15\_034-20230801-084300.JPG  
At: 12.7 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_035-15\_034-20230801-084358.JPG  
At: 33.5 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_035-15\_034-20230801-084730.JPG  
At: 93.2 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_035-15\_034-20230801-084822.JPG  
At: 100.8 ft. 10/. TF - Tap Factory  
Joint: No





Distance: 147.7 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_035-15\_034-20230801-085109.JPG  
At: 147.7 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 155.4 ft.  
TFC - Tap Factory Capped  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_035-15\_034-20230801-085143.JPG  
At: 155.4 ft. 3/. TFC - Tap Factory Capped  
Joint: No



Distance: 198.3 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 20 %

Photo: 15\_035-15\_034-20230801-085320.JPG  
At: 198.3 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 20 %



Distance: 219.6 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
034

Photo: 15\_035-15\_034-20230801-085422.JPG  
At: 219.6 ft. AMH - Manhole  
Joint: No 034



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



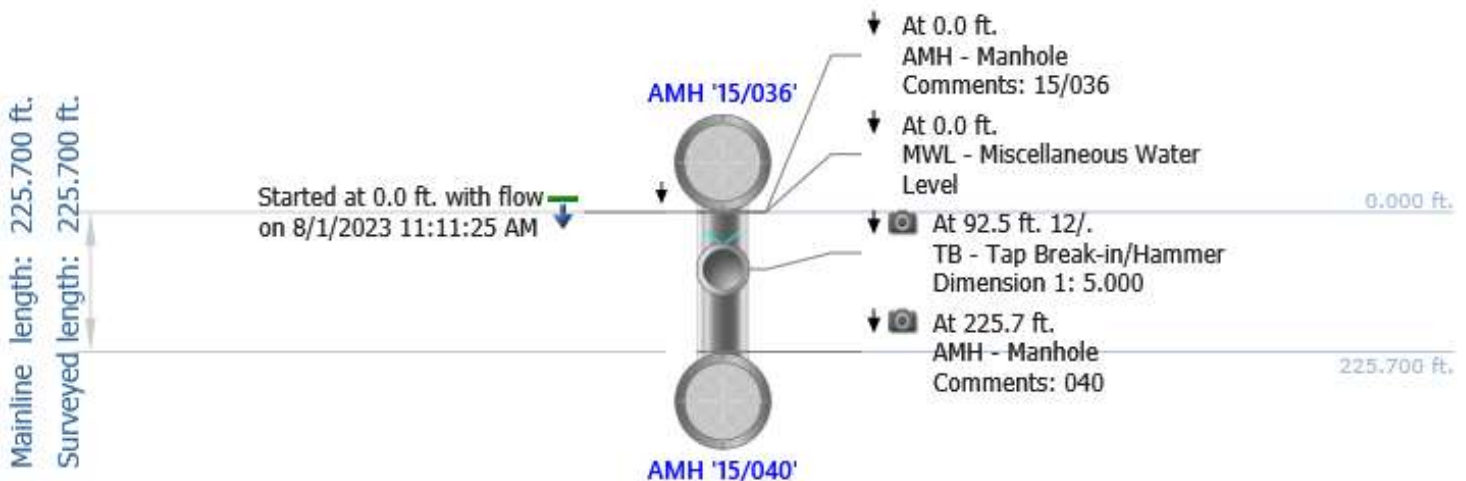
## NWMCC INSPECTION REPORT

Start date/time: 20230801 11:11	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/036 - 15/040
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: FISHER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/036	Downstream MH No: 15/040	Direction: D	Total length: 225.700 ft.	Length surveyed: 225.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

Stopped at -441.3 ft. with flow ↓ on 8/1/2023 11:56:01 AM



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: FISHER ST	Start date/time: 20230801 11:11	Pipe segment ref.: 15/036 - 15/040
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Photo: 15\_036-15\_040-20230801-111753.JPG  
At: 92.5 ft. 12/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_036-15\_040-20230801-112235.JPG  
At: 225.7 ft. AMH - Manhole  
Joint: No 040



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>





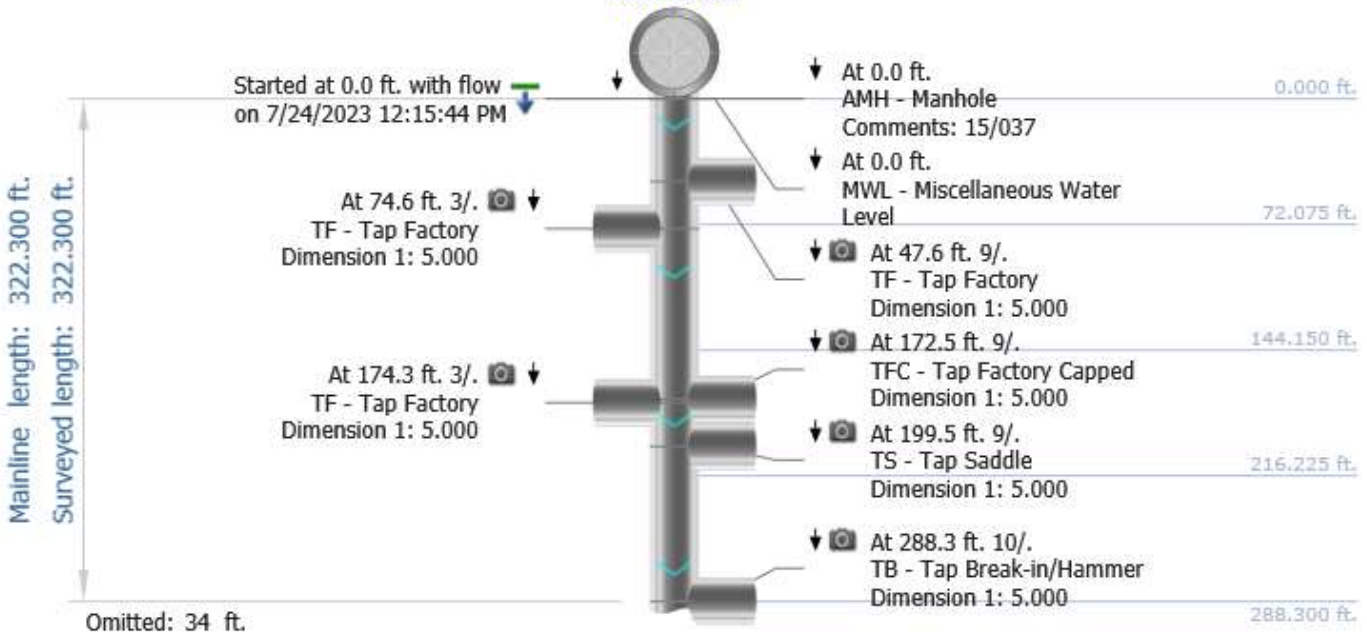
## NWMCC INSPECTION REPORT

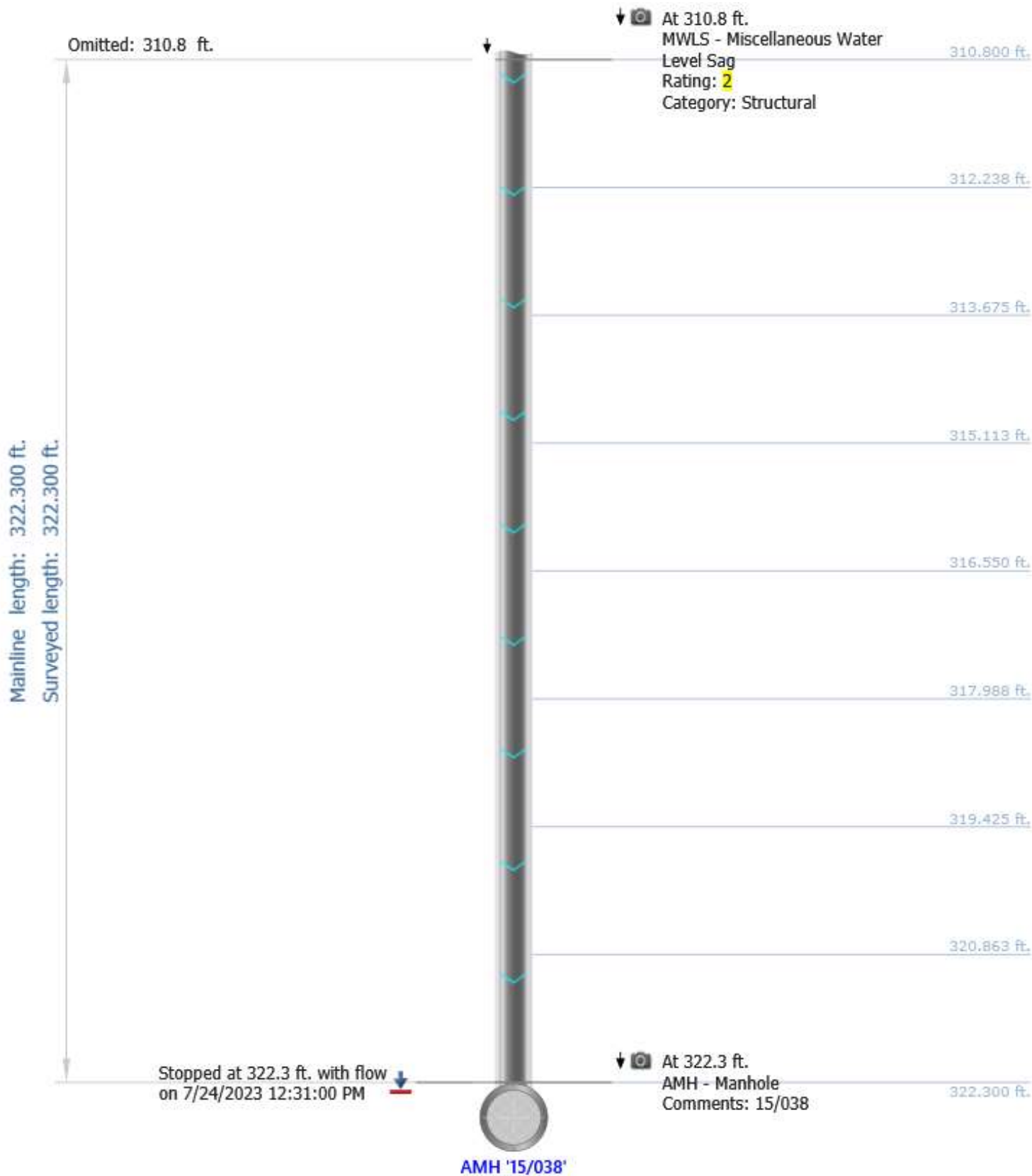
Start date/time: 20230724 12:15	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/037 - 15/038
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned: 20230724	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/037	Downstream MH No: 15/038	Direction: D	Total length: 322.300 ft.	Length surveyed: 322.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/037'





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230724 12:15	Pipe segment ref.: 15/037 - 15/038
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Photo: 15\_037-15\_038-20230724-121808.JPG  
At: 47.6 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_037-15\_038-20230724-121936.JPG  
At: 74.6 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_037-15\_038-20230724-122230.JPG  
At: 172.5 ft. 9/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_037-15\_038-20230724-122316.JPG  
At: 174.3 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 199.5 ft.  
TS - Tap Saddle  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_037-15\_038-20230724-122631.JPG  
At: 199.5 ft. 9/. TS - Tap Saddle  
Joint: No



Distance: 288.3 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_037-15\_038-20230724-122854.JPG  
At: 288.3 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 310.8 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 15 %

Photo: 15\_037-15\_038-20230724-122952.JPG  
At: 310.8 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 15 %



Distance: 322.3 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

15/038

Photo: 15\_037-15\_038-20230724-123037.JPG  
At: 322.3 ft. AMH - Manhole  
Joint: No 15/038





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>





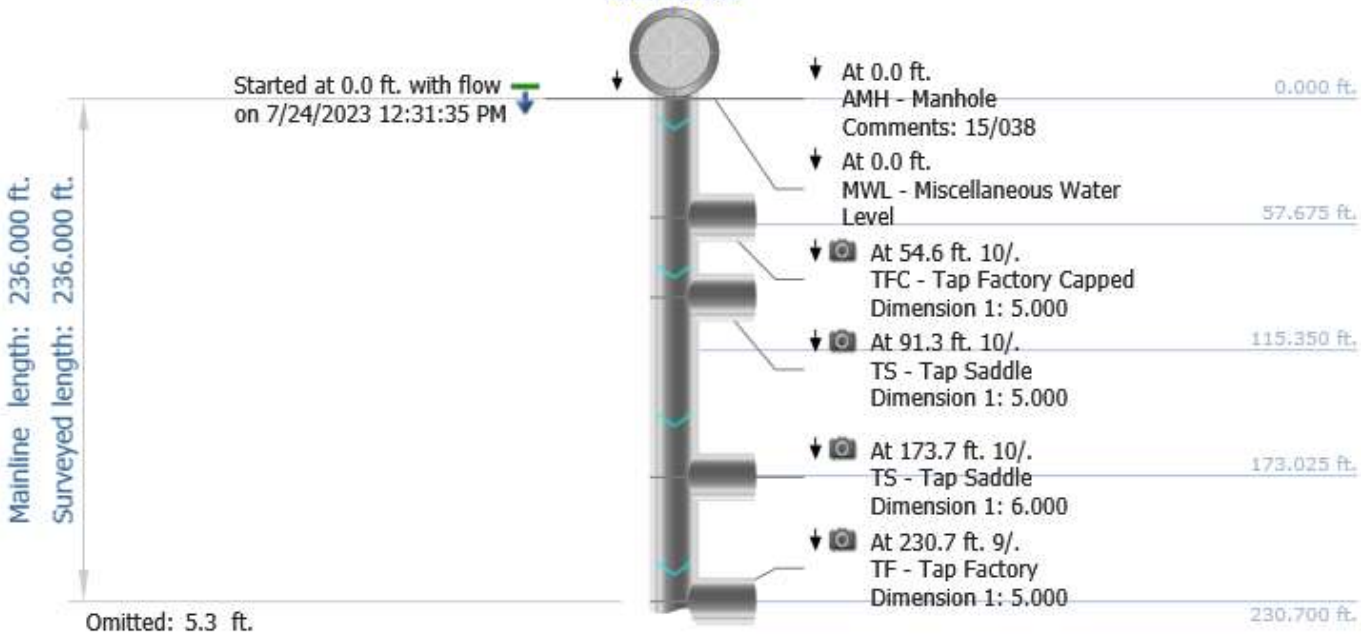
## NWMCC INSPECTION REPORT

Start date/time: 20230724 12:31	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/038 - 15/039
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/038	Downstream MH No: 15/039	Direction: D	Total length: 236.000 ft.	Length surveyed: 236.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

AMH '15/038'



Mainline length: 236.000 ft.  
Surveyed length: 236.000 ft.

Omitted: 236 ft.

Stopped at 236.0 ft. with flow  
on 7/24/2023 12:41:00 PM



AMH '15/039'



At 236.0 ft.  
AMH - Manhole  
Comments: 15/039

236.000 ft.  
236.000 ft.

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230724 12:31	Pipe segment ref.: 15/038 - 15/039
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Photo: 15\_038-15\_039-20230724-123416.JPG  
At: 54.6 ft. 10/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_038-15\_039-20230724-123536.JPG  
At: 91.3 ft. 10/. TS - Tap Saddle  
Joint: No



Photo: 15\_038-15\_039-20230724-123759.JPG  
At: 173.7 ft. 10/. TS - Tap Saddle  
Joint: No



Photo: 15\_038-15\_039-20230724-123945.JPG  
At: 230.7 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_038-15\_039-20230724-124033.JPG

At: 236 ft. AMH - Manhole

Joint: No 15/039



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



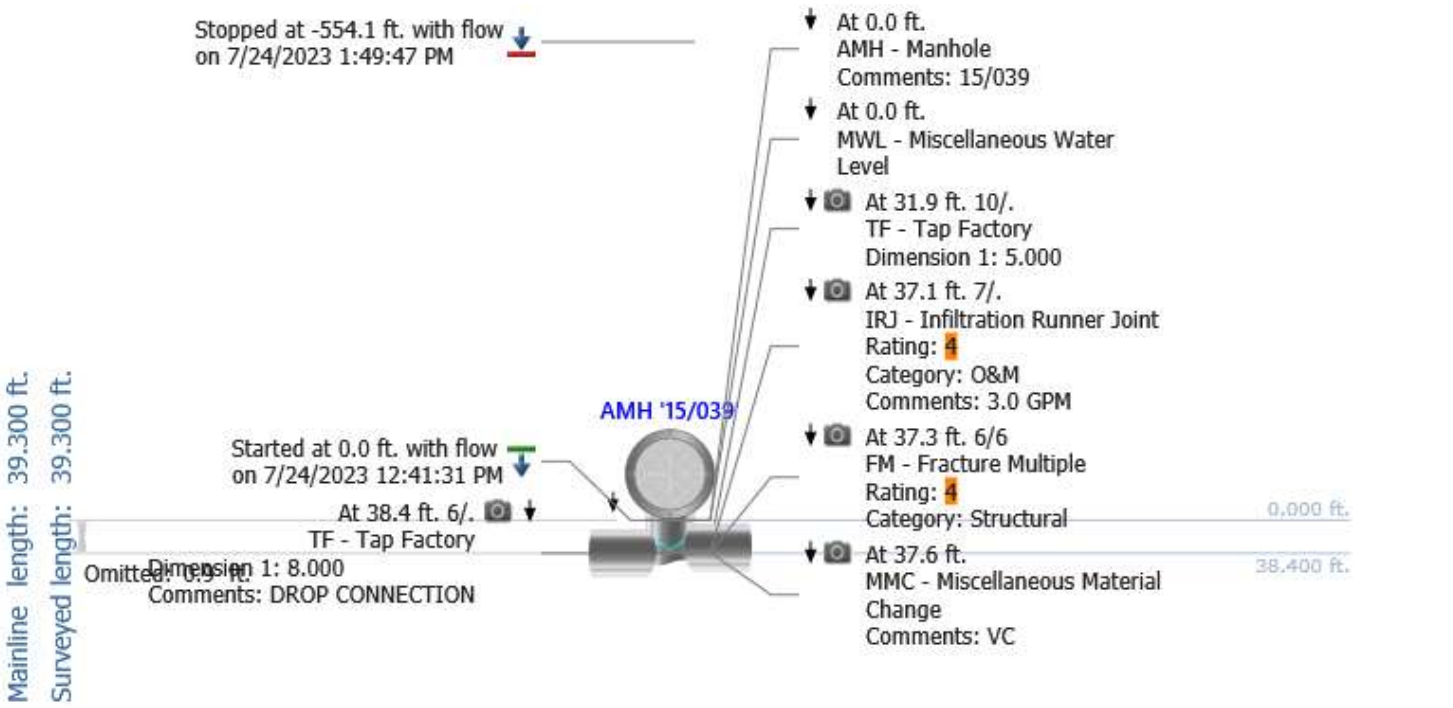


## NWMCC INSPECTION REPORT

Start date/time: 20230724 12:41	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/039 - 15/040	
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned: 20230724	Project name: ENV017-13	
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: _____	Flow control: _____
Upstream MH No: 15/039	Downstream MH No: 15/040	Direction: D	Total length: 39.300 ft.	Length surveyed: 39.300 ft.	
Purpose: Maintenance Related	Pipe joint length: _____	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: _____	Additional info: _____

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	4	4100	4.0	0	0	4	4100	4.0	8	4.0	4.2	
2	0	0				0	0							
3	0	0				0	0							
4	0	4				0	4							
5	0	0				0	0							



Mainline length: 39,300 ft.  
Surveyed length: 39,300 ft.

Omitted: 39.3 ft.



AMH '15/040'

At 39.3 ft.  
AMH - Manhole  
Comments: 15/040

39,300 ft.  
39,300 ft.

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230724 12:41	Pipe segment ref.: 15/039 - 15/040
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Photo: 15\_039-15\_040-20230724-124329.JPG  
At: 31.9 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_039-15\_040-20230724-124448.JPG  
At: 37.1 ft. 7/. IRJ - Infiltration Runner Joint  
Joint: Yes 3.0 GPM



Photo: 15\_039-15\_040-20230724-124520.JPG  
At: 37.3 ft. 6/6 FM - Fracture Multiple  
Joint: No

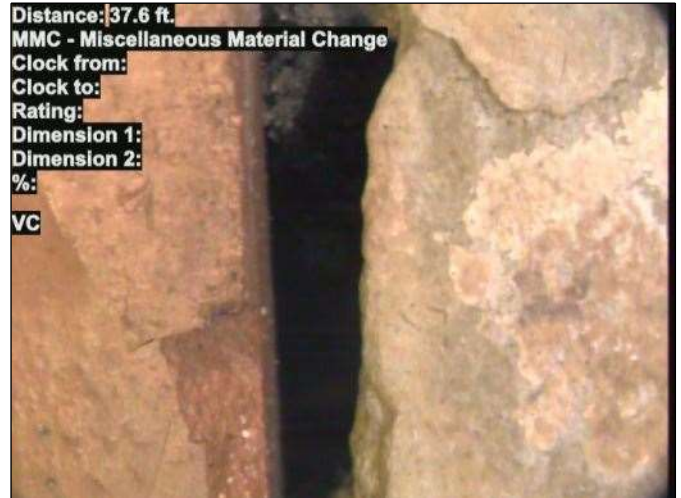


Photo: 15\_039-15\_040-20230724-124549.JPG  
At: 37.6 ft. MMC - Miscellaneous Material Change  
Joint: No VC



Distance: 38.4 ft.  
TF - Tap Factory  
Clock from: 6 o'clock  
Clock to:  
Rating:  
Dimension 1: 8  
Dimension 2:  
%:  
Photo: 15\_039-15\_040-20230724-124611.JPG  
At: 38.4 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION



Distance: 39.3 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
15/040  
Photo: 15\_039-15\_040-20230724-124639.JPG  
At: 39.3 ft. AMH - Manhole  
Joint: No 15/040



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



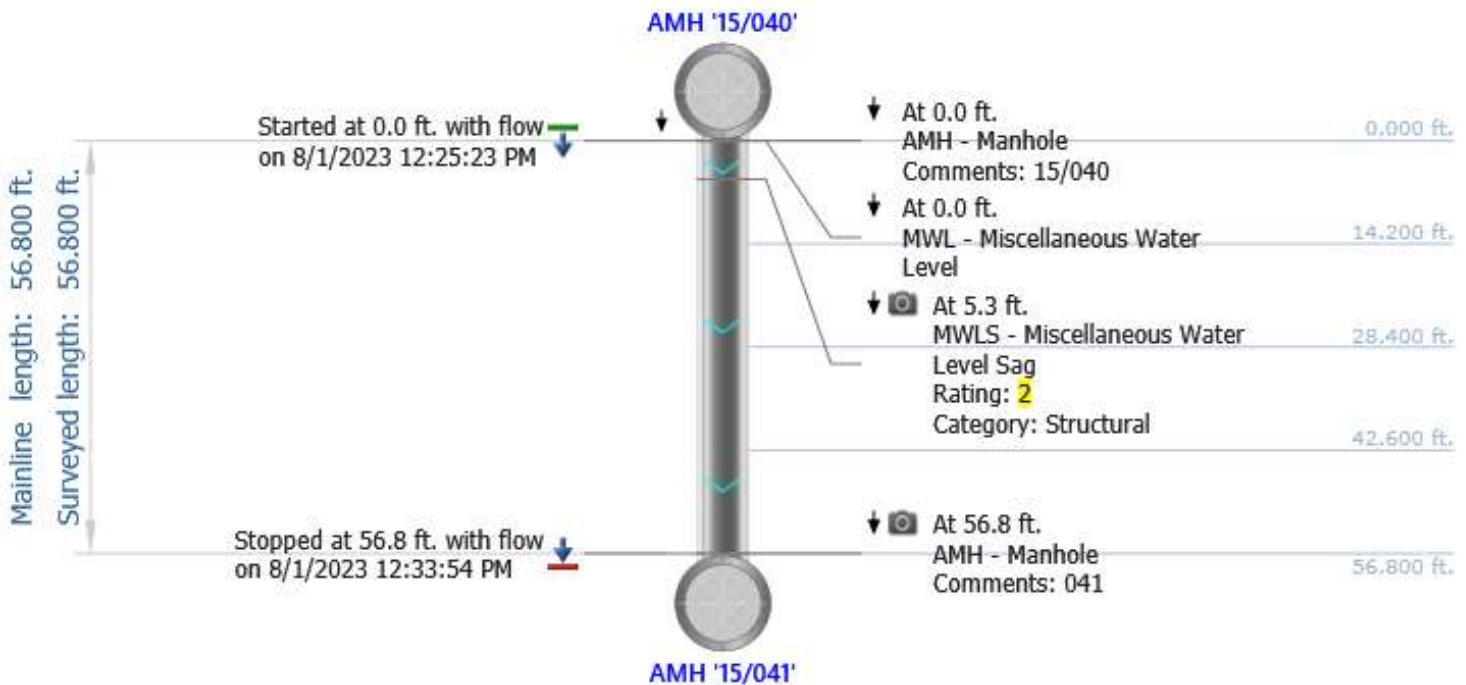


## NWMCC INSPECTION REPORT

Start date/time: 20230801 12:25	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/040 - 15/041
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: ELLIS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/040	Downstream MH No: 15/041	Direction: D	Total length: 56.800 ft.	Length surveyed: 56.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: ELLIS ST	Start date/time: 20230801 12:25	Pipe segment ref.: 15/040 - 15/041
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Photo: 15\_040-15\_041-20230801-123023.JPG  
At: 5.3 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 25 %



Photo: 15\_040-15\_041-20230801-123328.JPG  
At: 56.8 ft. AMH - Manhole  
Joint: No 041



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

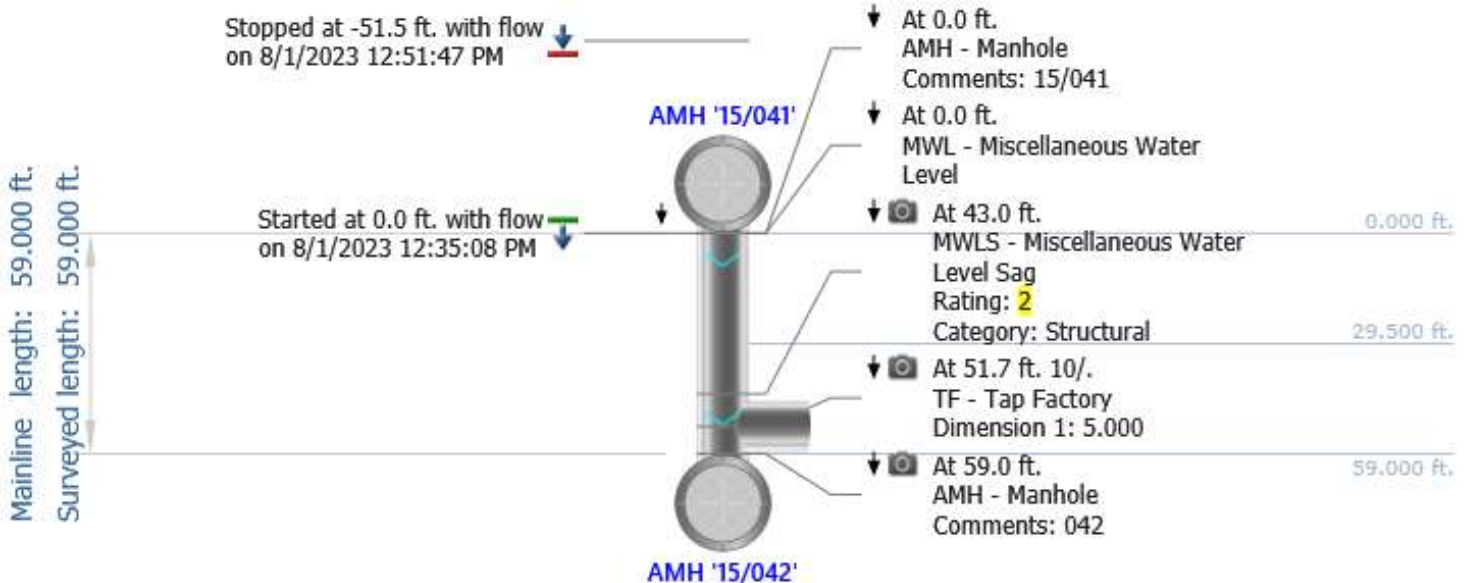


## NWMCC INSPECTION REPORT

Start date/time: 20230801 12:35		Weather: Dry - No precipitation during survey		Surveyed by: C.Arruda		Certificate number: U-910-11364		Pipe segment ref.: 15/041 - 15/042		
Owner:		Customer:		Pre-cleaning: Light Cleaning		Date cleaned: 20230801		Project name: ENV017-13		
City: WESTWOOD MA		Street: COLBURN ST		Location code:		Pipe use: Sanitary Sewage Pipe		Drainage area: Flow control:		
Upstream MH No: 15/041			Downstream MH No: 15/042			Direction: D		Total length: 59.000 ft.		Length surveyed: 59.000 ft.
Purpose: Maintenance Related		Pipe joint length:		Height: 8 in.		Material: Asbestos Cement		LateralsCounter:		Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST	Start date/time: 20230801 12:35	Pipe segment ref.: 15/041 - 15/042
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Photo: 15\_041-15\_042-20230801-123857.JPG  
At: 43 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 25 %



Photo: 15\_041-15\_042-20230801-124003.JPG  
At: 51.7 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_041-15\_042-20230801-124233.JPG  
At: 59 ft. AMH - Manhole  
Joint: No 042





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



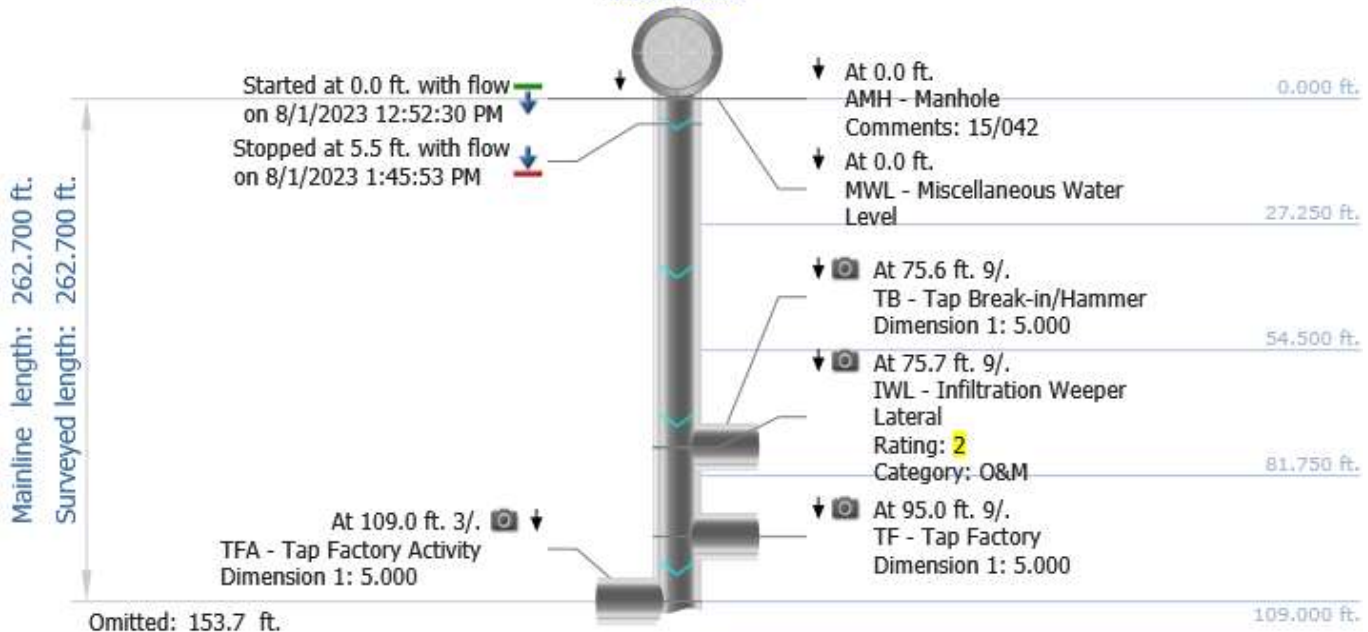
## NWMCC INSPECTION REPORT

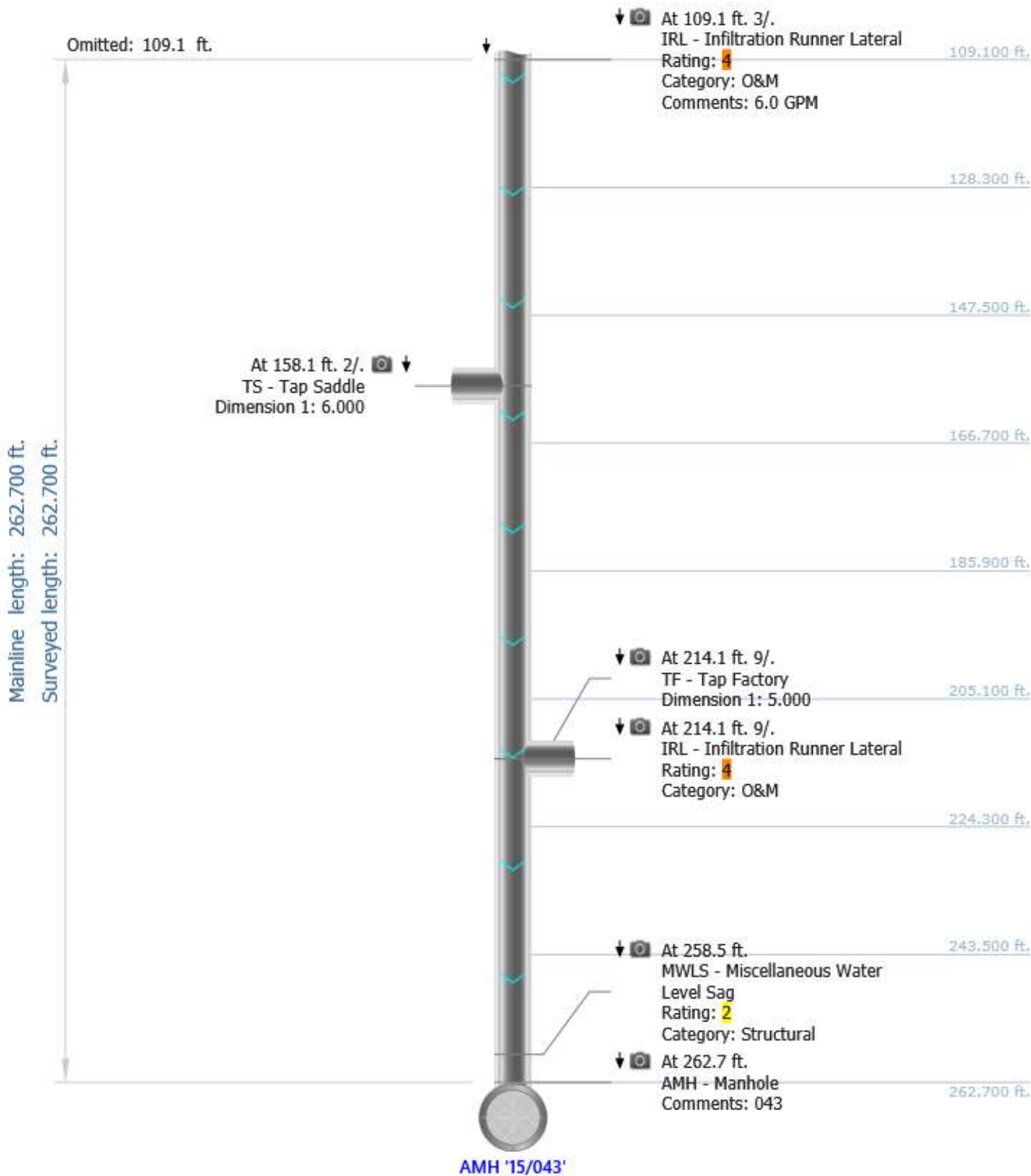
Start date/time: 20230801 12:52	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/042 - 15/043
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: COLBURN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/042	Downstream MH No: 15/043	Direction: D	Total length: 262.700 ft.	Length surveyed: 262.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	10	4221	3.3	12	3.0	4.2	
2	0	2				0	2							
3	0	0				0	0							
4	0	0				0	8							
5	0	0				0	0							

AMH '15/042'





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST	Start date/time: 20230801 12:52	Pipe segment ref.: 15/042 - 15/043
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Photo: 15\_042-15\_043-20230801-130357.JPG  
At: 75.6 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No

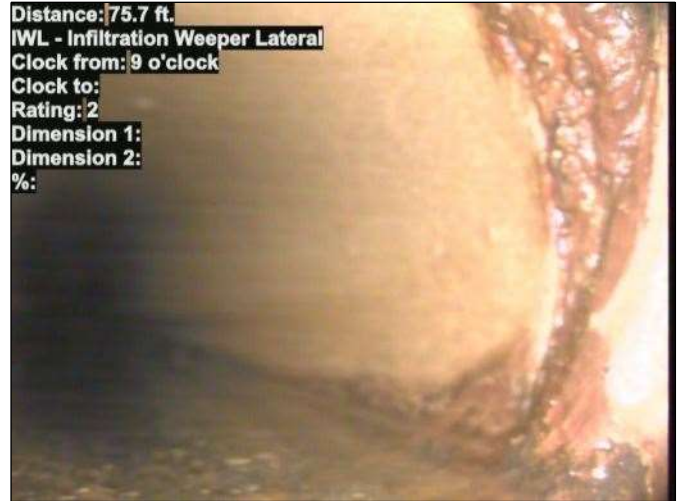


Photo: 15\_042-15\_043-20230801-130432.JPG  
At: 75.7 ft. 9/. IWL - Infiltration Weeper Lateral  
Joint: No

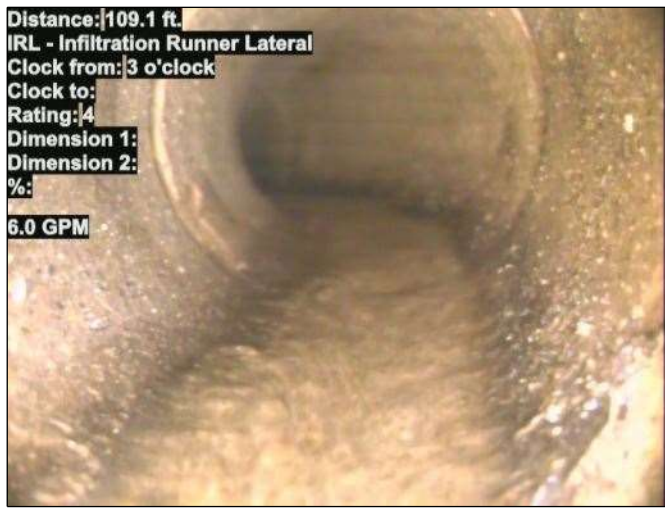


Photo: 15\_042-15\_043-20230801-130600.JPG  
At: 95 ft. 9/. TF - Tap Factory  
Joint: No



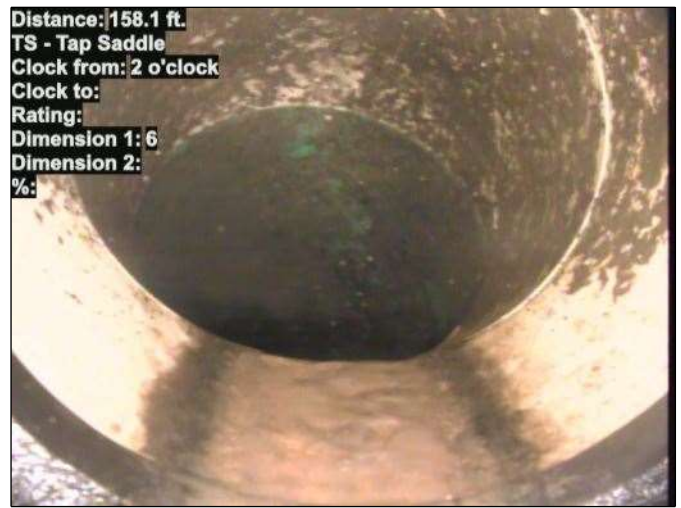
Photo: 15\_042-15\_043-20230801-130703.JPG  
At: 109 ft. 3/. TFA - Tap Factory Activity  
Joint: No





Distance: 109.1 ft.  
IRL - Infiltration Runner Lateral  
Clock from: 3 o'clock  
Clock to:  
Rating: 4  
Dimension 1:  
Dimension 2:  
%:  
6.0 GPM

Photo: 15\_042-15\_043-20230801-130729.JPG  
At: 109.1 ft. 3/. IRL - Infiltration Runner Lateral  
Joint: No 6.0 GPM



Distance: 158.1 ft.  
TS - Tap Saddle  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 6  
Dimension 2:  
%:

Photo: 15\_042-15\_043-20230801-130946.JPG  
At: 158.1 ft. 2/. TS - Tap Saddle  
Joint: No



Distance: 214.1 ft.  
IRL - Infiltration Runner Lateral  
Clock from: 9 o'clock  
Clock to:  
Rating: 4  
Dimension 1:  
Dimension 2:  
%:

Photo: 15\_042-15\_043-20230801-131230.JPG  
At: 214.1 ft. 9/. IRL - Infiltration Runner Lateral  
Joint: No



Distance: 214.1 ft.  
TF - Tap Factory  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_042-15\_043-20230801-131209.JPG  
At: 214.1 ft. 9/. TF - Tap Factory  
Joint: No



Distance: 258.5 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 30 %

Photo: 15\_042-15\_043-20230801-131503.JPG  
At: 258.5 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 30 %



Distance: 262.7 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
043

Photo: 15\_042-15\_043-20230801-131553.JPG  
At: 262.7 ft. AMH - Manhole  
Joint: No 043





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

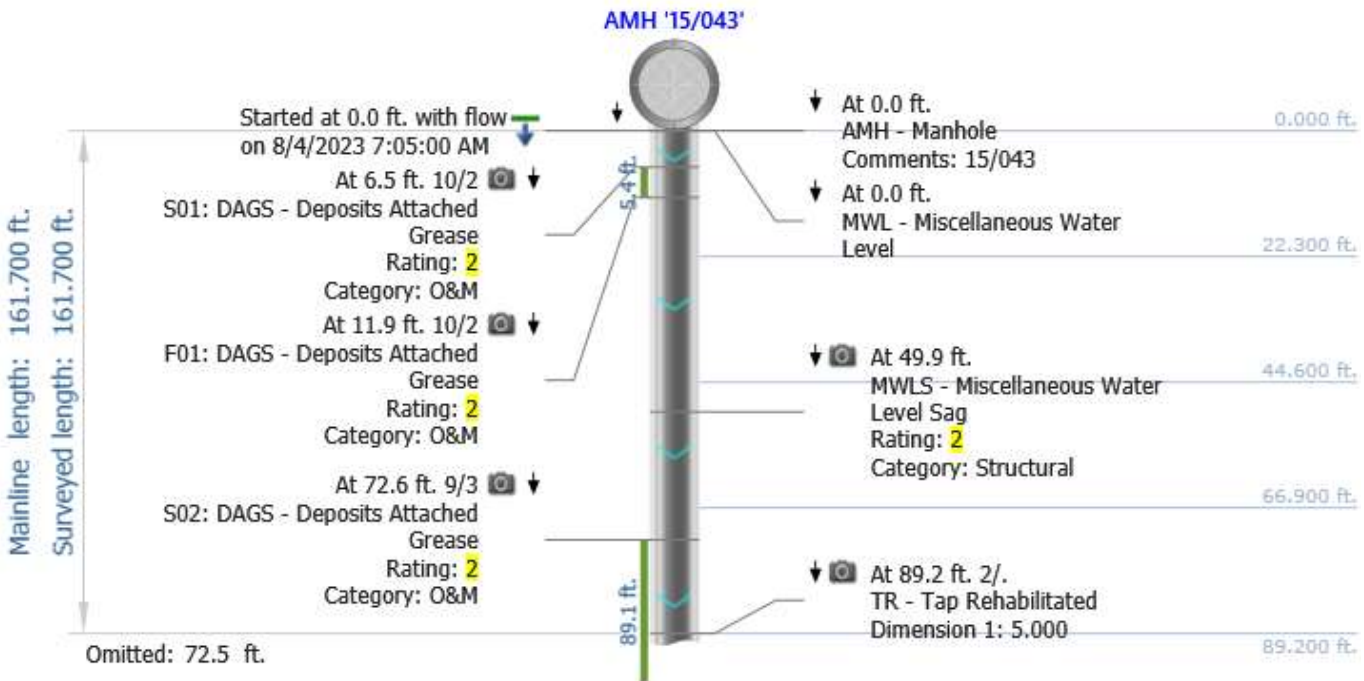


## NWMCC INSPECTION REPORT

Start date/time: 20230804 07:05	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/043 - 15/058
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: COLBURN ST CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/043	Downstream MH No: 15/058	Direction: D	Total length: 161.700 ft.	Length surveyed: 161.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyethylene	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	38	2B00	2.0	40	2.0	3.0	
2	0	2				0	38							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 161.700 ft.  
Surveyed length: 161.700 ft.



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST CC	Start date/time: 20230804 07:05	Pipe segment ref.: 15/043 - 15/058
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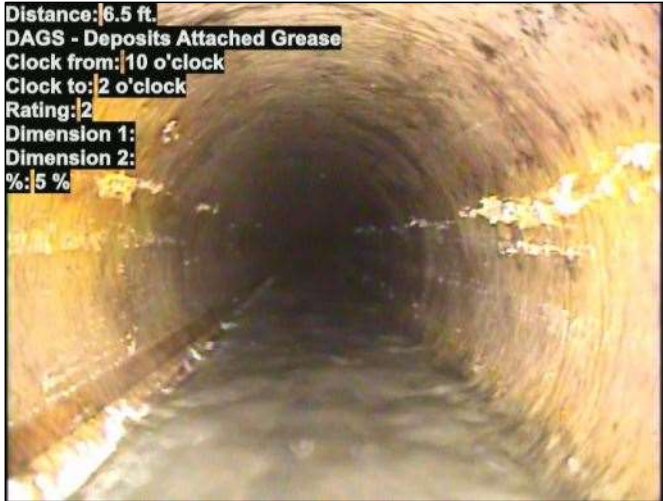


Photo: 15\_043-15\_058-20230804-071659.JPG  
At: 6.5 ft. 10/2 DABS - Deposits Attached Grease  
Joint: No 5 %



Photo: 15\_043-15\_058-20230804-071723.JPG  
At: 11.9 ft. 10/2 DABS - Deposits Attached Grease  
Joint: No 5 %



Photo: 15\_043-15\_058-20230804-071848.JPG  
At: 49.9 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 20 %



Photo: 15\_043-15\_058-20230804-071949.JPG  
At: 72.6 ft. 9/3 DABS - Deposits Attached Grease  
Joint: No 5 %





Distance: 89.2 ft.  
TR - Tap Rehabilitated  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_043-15\_058-20230804-072107.JPG  
At: 89.2 ft. 2/. TR - Tap Rehabilitated  
Joint: No



Distance: 161.7 ft.  
DAGS - Deposits Attached Grease  
Clock from: 9 o'clock  
Clock to: 3 o'clock  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 5 %

Photo: 15\_043-15\_058-20230804-072530.JPG  
At: 161.7 ft. 9/3 DAGS - Deposits Attached Grease  
Joint: No 5 %



Distance: 161.7 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

058

Photo: 15\_043-15\_058-20230804-072533.JPG  
At: 161.7 ft. AMH - Manhole  
Joint: No 058





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

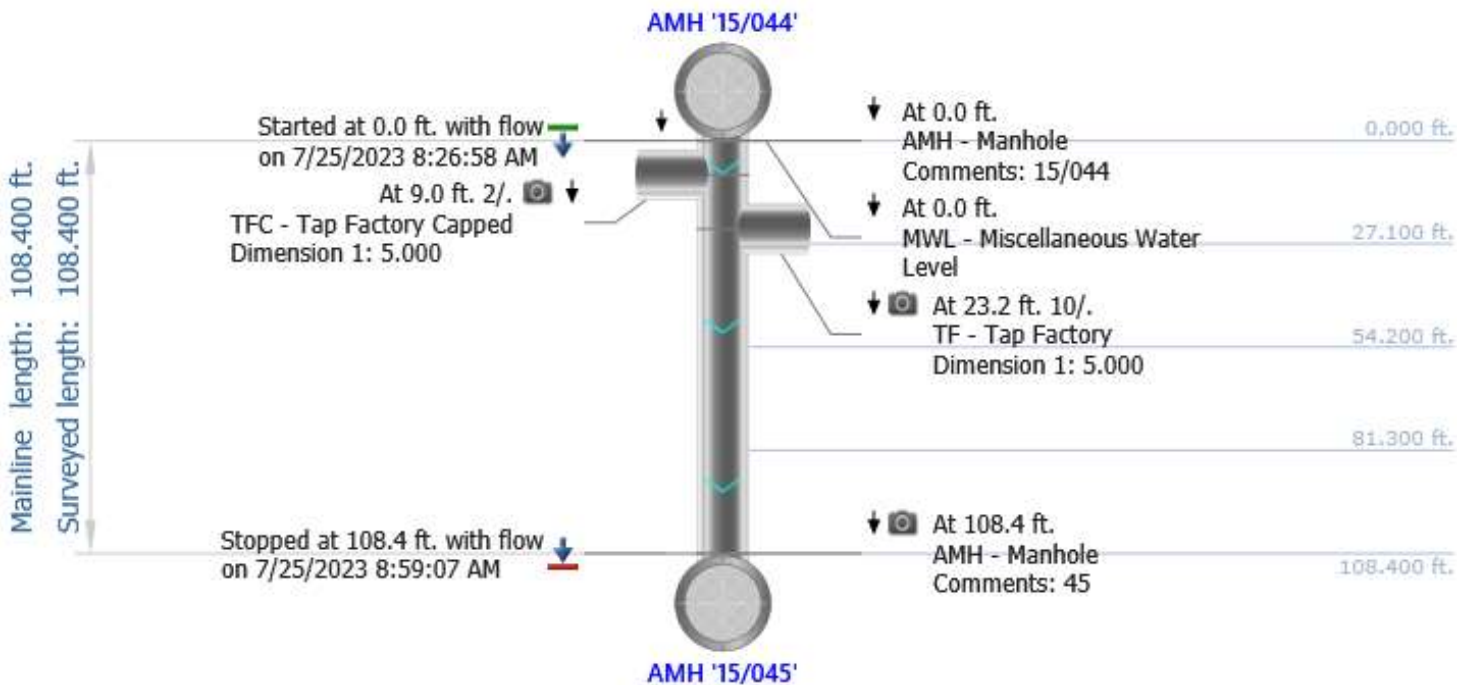


## NWMCC INSPECTION REPORT

Start date/time: 20230725 08:26	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/044 - 15/045
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BAYLEY ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/044	Downstream MH No: 15/045	Direction: D	Total length: 108.400 ft.	Length surveyed: 108.400 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: BAYLEY ST	Start date/time: 20230725 08:26	Pipe segment ref.: 15/044 - 15/045
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Photo: 15\_044-15\_045-20230725-085452.JPG  
At: 9 ft. 2/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_044-15\_045-20230725-085537.JPG  
At: 23.2 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_044-15\_045-20230725-085837.JPG  
At: 108.4 ft. AMH - Manhole  
Joint: No 45



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

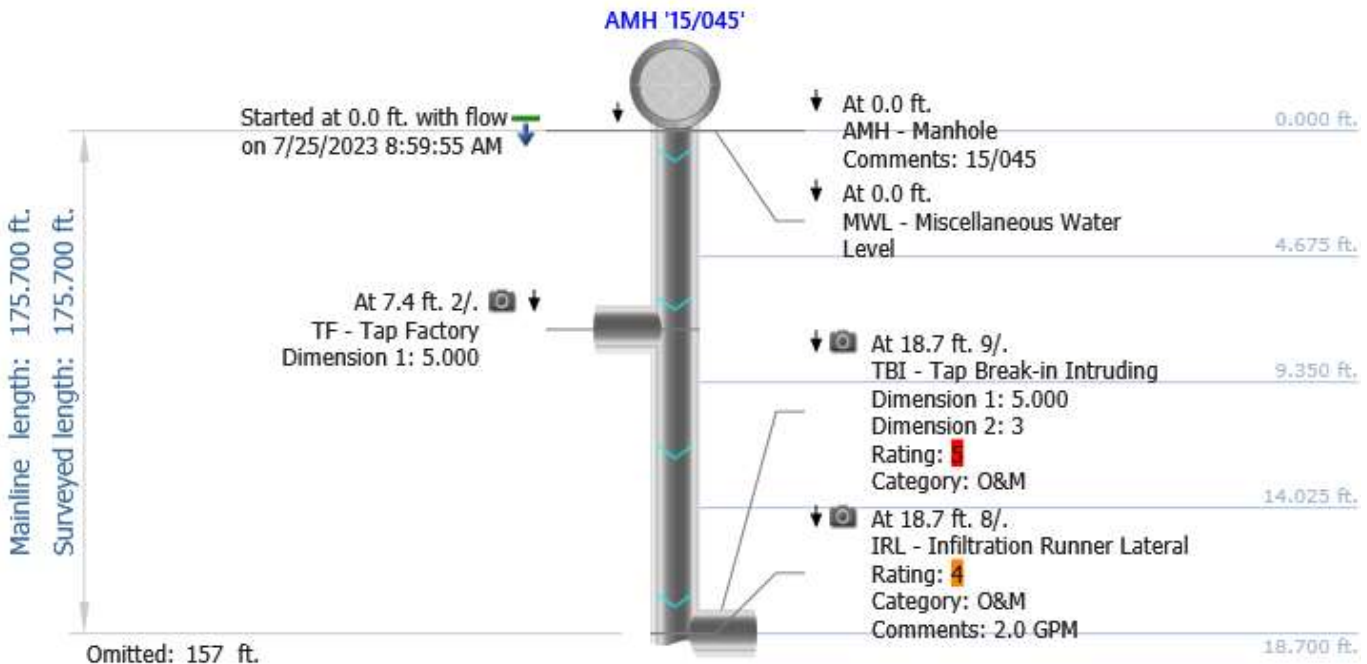


## NWMCC INSPECTION REPORT

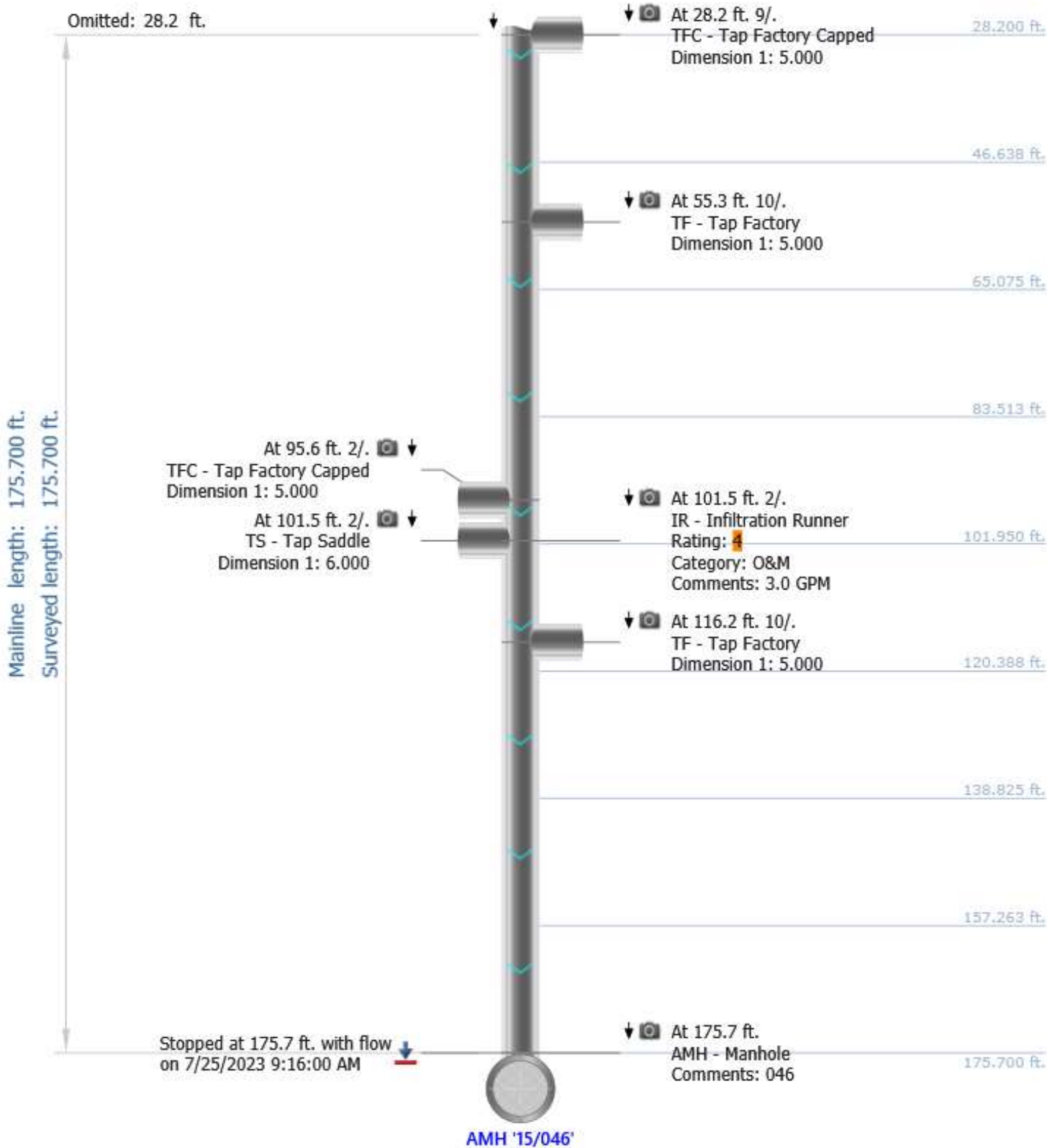
Start date/time: 20230725 08:59	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/045 - 15/046
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BAYLEY ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/045	Downstream MH No: 15/046	Direction: D	Total length: 175.700 ft.	Length surveyed: 175.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	13	5142	4.3	13	4.3	5.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	8							
5	0	0				0	5							







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: BAYLEY ST	Start date/time: 20230725 08:59	Pipe segment ref.: 15/045 - 15/046
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Photo: 15\_045-15\_046-20230725-090238.JPG  
At: 7.4 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_045-15\_046-20230725-090354.JPG  
At: 18.7 ft. 8/. IRL - Infiltration Runner Lateral  
Joint: No 2.0 GPM

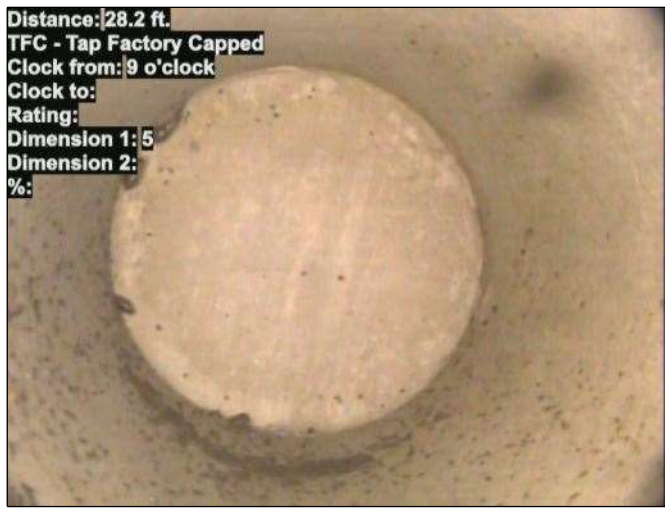


Photo: 15\_045-15\_046-20230725-090324\_1.JPG  
At: 18.7 ft. 9/. TBI - Tap Break-in Intruding  
Joint: No



Photo: 15\_045-15\_046-20230725-090324.JPG  
At: 18.7 ft. 9/. TBI - Tap Break-in Intruding  
Joint: No





Distance: 28.2 ft.  
TFC - Tap Factory Capped  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_045-15\_046-20230725-090829.JPG  
At: 28.2 ft. 9/. TFC - Tap Factory Capped  
Joint: No



Distance: 55.3 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_045-15\_046-20230725-090932.JPG  
At: 55.3 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 95.6 ft.  
TFC - Tap Factory Capped  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_045-15\_046-20230725-091102.JPG  
At: 95.6 ft. 2/. TFC - Tap Factory Capped  
Joint: No



Distance: 101.5 ft.  
IR - Infiltration Runner  
Clock from: 2 o'clock  
Clock to:  
Rating: 4  
Dimension 1:  
Dimension 2:  
%:  
3.0 GPM  
Photo: 15\_045-15\_046-20230725-091147.JPG  
At: 101.5 ft. 2/. IR - Infiltration Runner  
Joint: No 3.0 GPM



Distance: 101.5 ft.  
TS - Tap Saddle  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 6  
Dimension 2:  
%:  
Photo: 15\_045-15\_046-20230725-091130.JPG  
At: 101.5 ft. 2/. TS - Tap Saddle  
Joint: No



Distance: 116.2 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_045-15\_046-20230725-091303.JPG  
At: 116.2 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_045-15\_046-20230725-091551.JPG

At: 175.7 ft. AMH - Manhole

Joint: No 046



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



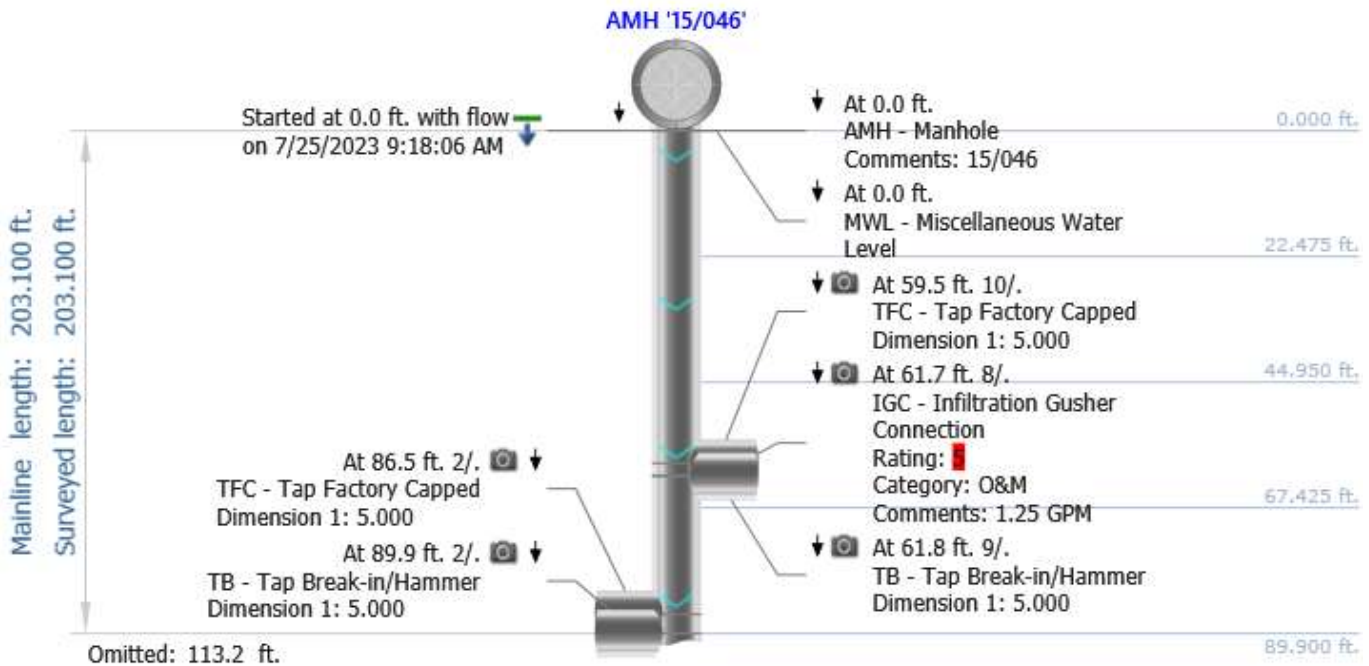


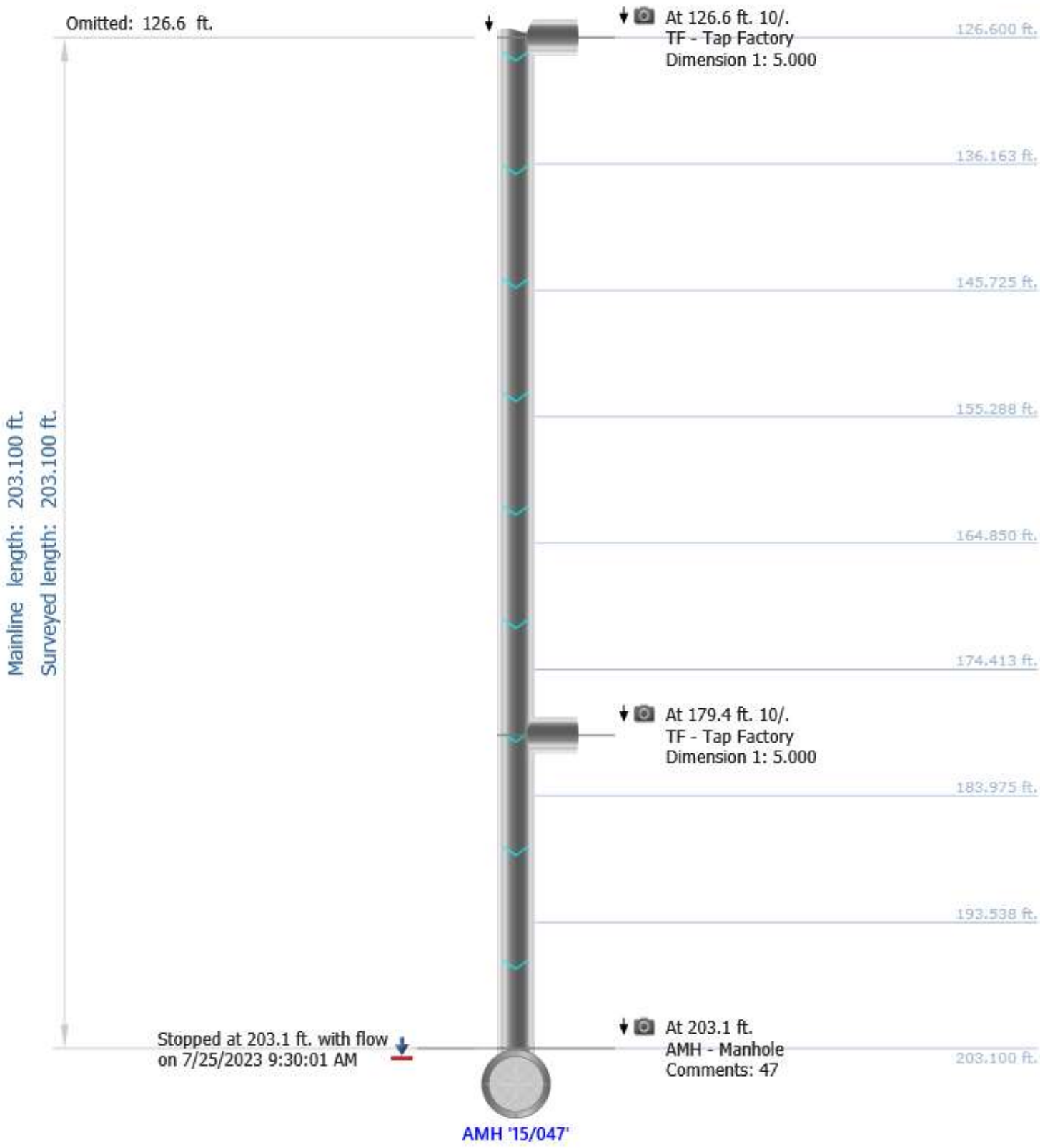
## NWMCC INSPECTION REPORT

Start date/time: 20230725 09:18	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/046 - 15/047
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BAYLEY ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/046	Downstream MH No: 15/047	Direction: D	Total length: 203.100 ft.	Length surveyed: 203.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	5	5100	5.0	5	5.0	5.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	5							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: BAYLEY ST	Start date/time: 20230725 09:18	Pipe segment ref.: 15/046 - 15/047
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Photo: 15\_046-15\_047-20230725-092159.JPG  
At: 59.5 ft. 10/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_046-15\_047-20230725-092224.JPG  
At: 61.7 ft. 8/. IGC - Infiltration Gusher Connection  
Joint: No 1.25 GPM



Photo: 15\_046-15\_047-20230725-092314.JPG  
At: 61.8 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_046-15\_047-20230725-092418.JPG  
At: 86.5 ft. 2/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_046-15\_047-20230725-092501.JPG  
At: 89.9 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_046-15\_047-20230725-092633.JPG  
At: 126.6 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_046-15\_047-20230725-092829.JPG  
At: 179.4 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_046-15\_047-20230725-092939.JPG  
At: 203.1 ft. AMH - Manhole  
Joint: No 47





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p><b>Minor Defects - Failure unlikely in the foreseeable future</b></p>
<p><u>2:</u>    <b>Good Condition</b></p> <p><b>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</b></p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p><b>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</b></p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p><b>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</b></p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p><b>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</b></p>



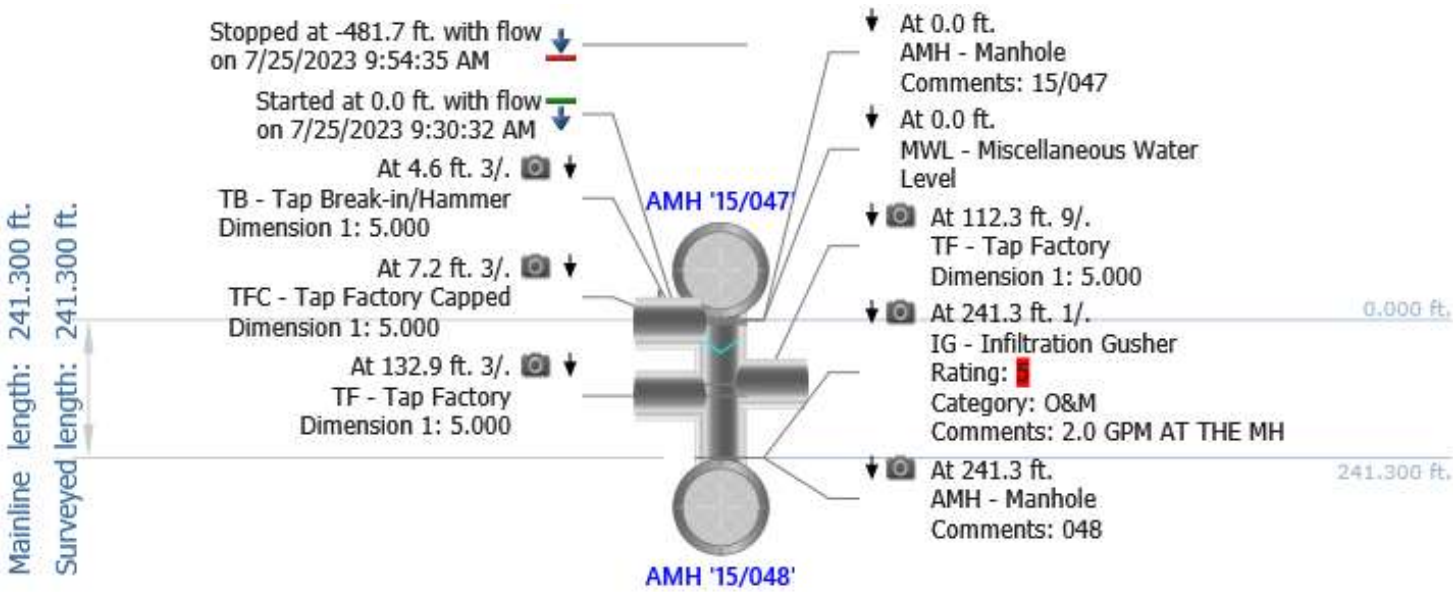


## NWMCC INSPECTION REPORT

Start date/time: 20230725 09:30	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/047 - 15/048
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BAYLEY ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/047	Downstream MH No: 15/048	Direction: D	Total length: 241.300 ft.	Length surveyed: 241.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	5	5100	5.0	5	5.0	5.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	5							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: BAYLEY ST	Start date/time: 20230725 09:30	Pipe segment ref.: 15/047 - 15/048
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Photo: 15\_047-15\_048-20230725-093236.JPG  
At: 4.6 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_047-15\_048-20230725-093300.JPG  
At: 7.2 ft. 3/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_047-15\_048-20230725-093618.JPG  
At: 112.3 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_047-15\_048-20230725-093708.JPG  
At: 132.9 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 241.3 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
048

Photo: 15\_047-15\_048-20230725-094147.JPG  
At: 241.3 ft. AMH - Manhole  
Joint: No 048



Distance: 241.3 ft.  
IG - Infiltration Gusher  
Clock from: 1 o'clock  
Clock to:  
Rating: 5  
Dimension 1:  
Dimension 2:  
%:  
2.0 GPM AT THE MH

Photo: 15\_047-15\_048-20230725-094057.JPG  
At: 241.3 ft. 1/. IG - Infiltration Gusher  
Joint: No 2.0 GPM AT THE MH



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

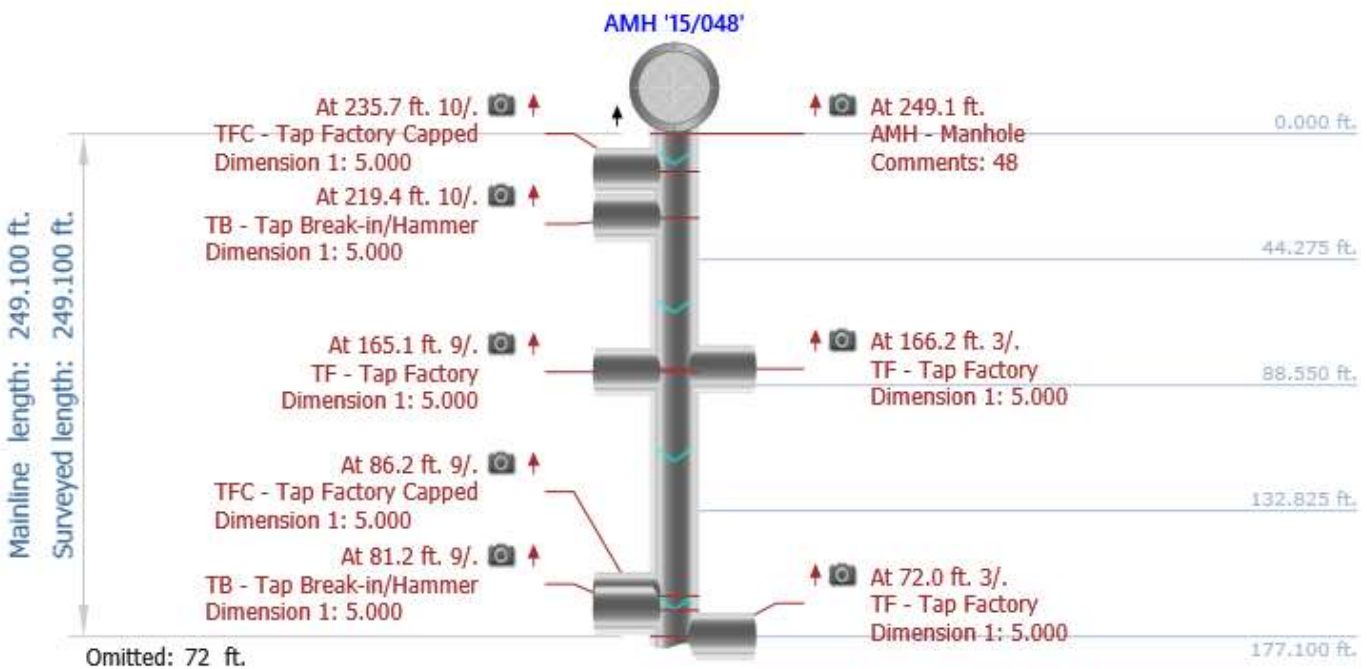


## NWMCC INSPECTION REPORT

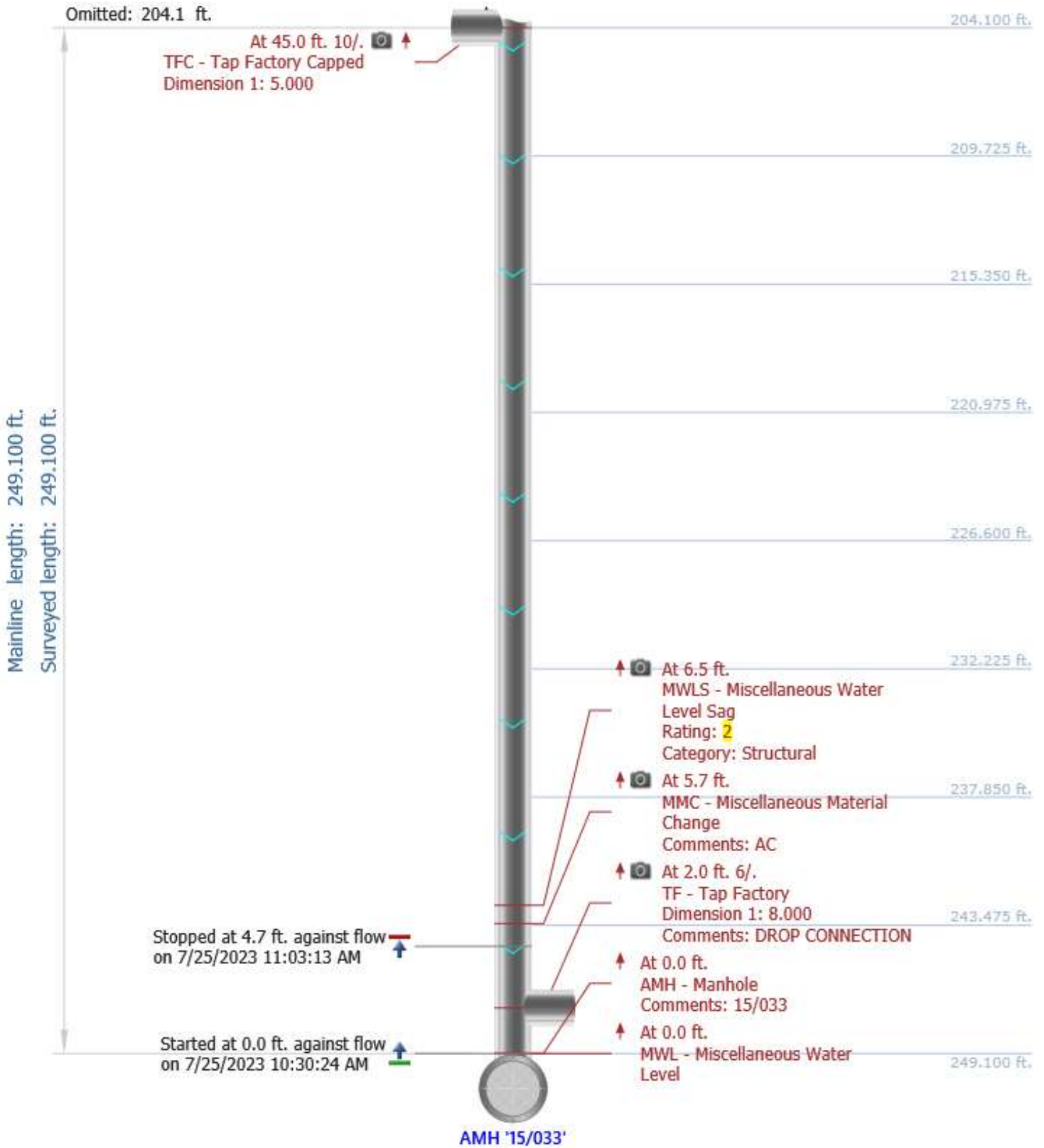
Start date/time: 20230725 10:30	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/033 - 15/048
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: FRENCH ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/048	Downstream MH No: 15/033	Direction: U	Total length: 249.100 ft.	Length surveyed: 249.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Vitrified Clay Pipe	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	2	2100	2.0	0	0	0	0000	0.0	2	2.0	2.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							







# NWMCC INSPECTION REPORT

## Inspection Photos

City:	Street:	Start date/time:	Pipe segment ref.:
WESTWOOD MA	FRENCH ST	20230725 10:30	15/033 - 15/048



Photo: 15\_048-15\_033-20230725-103219.JPG  
At: 2 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION

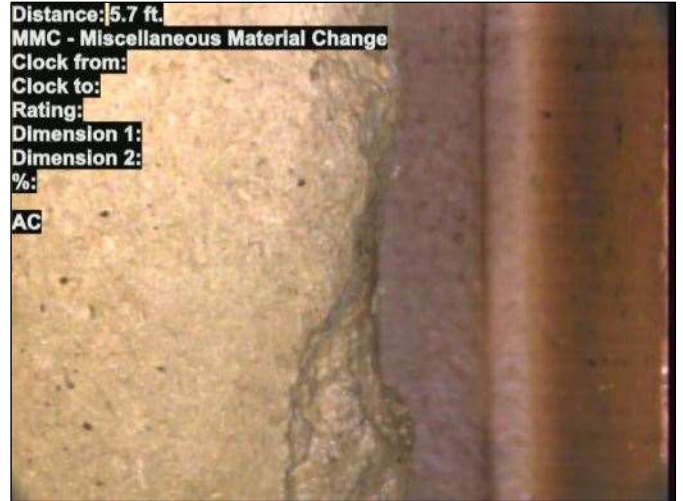


Photo: 15\_048-15\_033-20230725-103303.JPG  
At: 5.7 ft. MMC - Miscellaneous Material Change  
Joint: No AC



Photo: 15\_048-15\_033-20230725-103334.JPG  
At: 6.5 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 15 %



Photo: 15\_048-15\_033-20230725-103745.JPG  
At: 45 ft. 10/. TFC - Tap Factory Capped  
Joint: No





Distance: 72.0 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-103851.JPG  
At: 72 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 81.2 ft.  
TB - Tap Break-in/Hammer  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-103929.JPG  
At: 81.2 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 86.2 ft.  
TFC - Tap Factory Capped  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-103955.JPG  
At: 86.2 ft. 9/. TFC - Tap Factory Capped  
Joint: No



Distance: 165.1 ft.  
TF - Tap Factory  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-104235.JPG  
At: 165.1 ft. 9/. TF - Tap Factory  
Joint: No



Distance: 166.2 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-104252.JPG  
At: 166.2 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 219.4 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-104545.JPG  
At: 219.4 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 235.7 ft.  
TFC - Tap Factory Capped  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_048-15\_033-20230725-104634.JPG  
At: 235.7 ft. 10/. TFC - Tap Factory Capped  
Joint: No



Distance: 249.1 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

48

Photo: 15\_048-15\_033-20230725-104720.JPG  
At: 249.1 ft. AMH - Manhole  
Joint: No 48



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



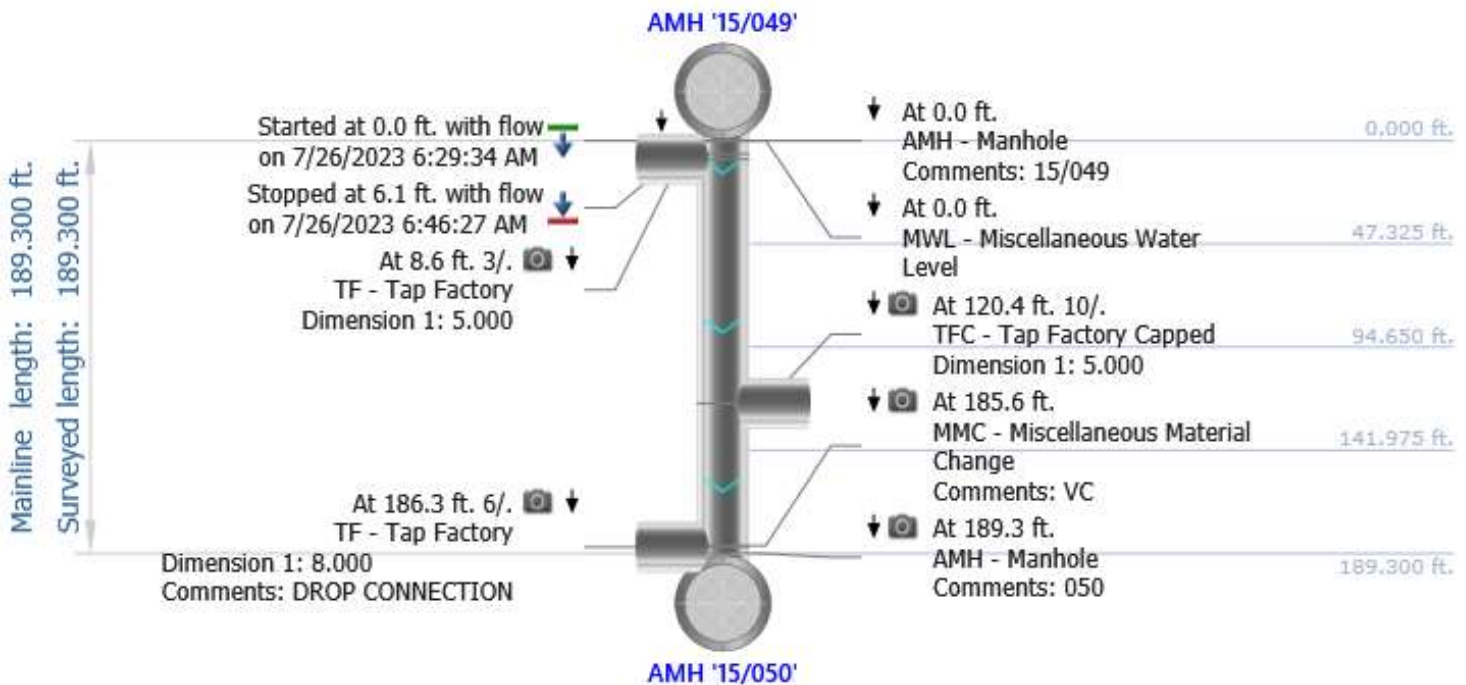


## NWMCC INSPECTION REPORT

Start date/time: 20230726 06:29	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/049 - 15/050
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WILLOW ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/049	Downstream MH No: 15/050	Direction: D	Total length: 189.300 ft.	Length surveyed: 189.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WILLOW ST	Start date/time: 20230726 06:29	Pipe segment ref.: 15/049 - 15/050
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Photo: 15\_049-15\_050-20230726-063524.JPG  
At: 8.6 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_049-15\_050-20230726-063928.JPG  
At: 120.4 ft. 10/. TFC - Tap Factory Capped  
Joint: No

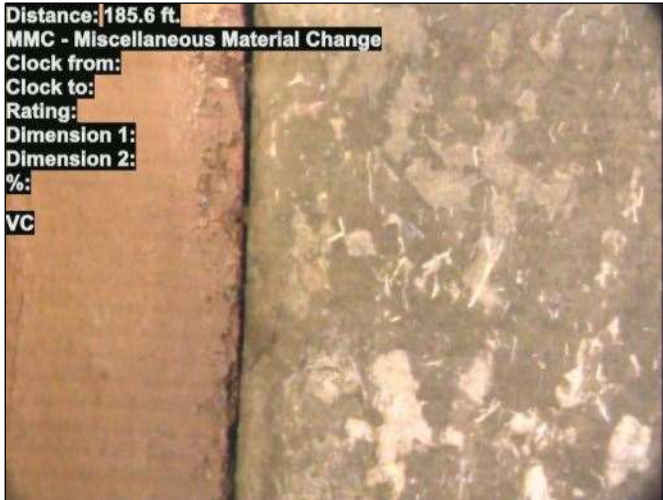


Photo: 15\_049-15\_050-20230726-064200.JPG  
At: 185.6 ft. MMC - Miscellaneous Material Change  
Joint: No VC



Photo: 15\_049-15\_050-20230726-064230.JPG  
At: 186.3 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION



Photo: 15\_049-15\_050-20230726-064320.JPG

At: 189.3 ft. AMH - Manhole

Joint: No 050



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

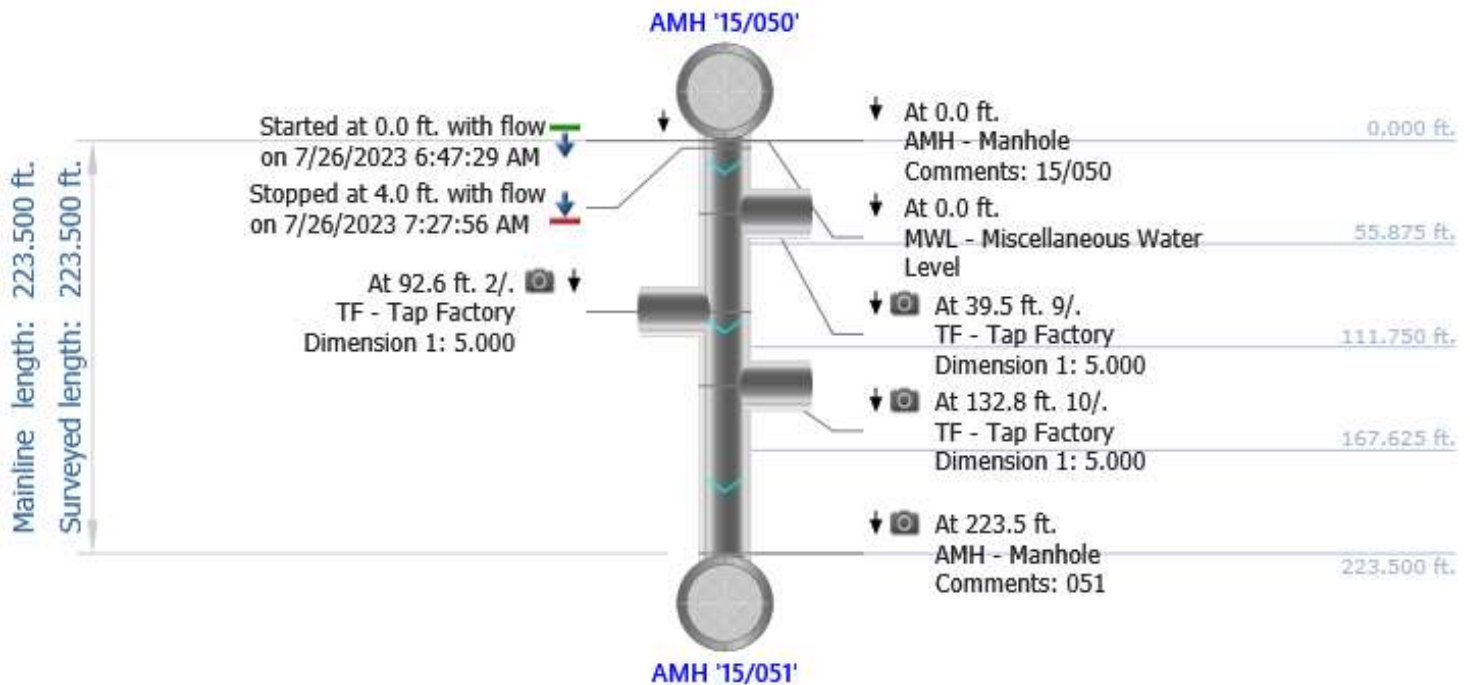


## NWMCC INSPECTION REPORT

Start date/time: 20230726 06:47	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/050 - 15/051
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: COLBURN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/050	Downstream MH No: 15/051	Direction: D	Total length: 223.500 ft.	Length surveyed: 223.500 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST	Start date/time: 20230726 06:47	Pipe segment ref.: 15/050 - 15/051
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Photo: 15\_050-15\_051-20230726-070443.JPG  
At: 39.5 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_050-15\_051-20230726-070701.JPG  
At: 92.6 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_050-15\_051-20230726-070908.JPG  
At: 132.8 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_050-15\_051-20230726-071208.JPG  
At: 223.5 ft. AMH - Manhole  
Joint: No 051



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

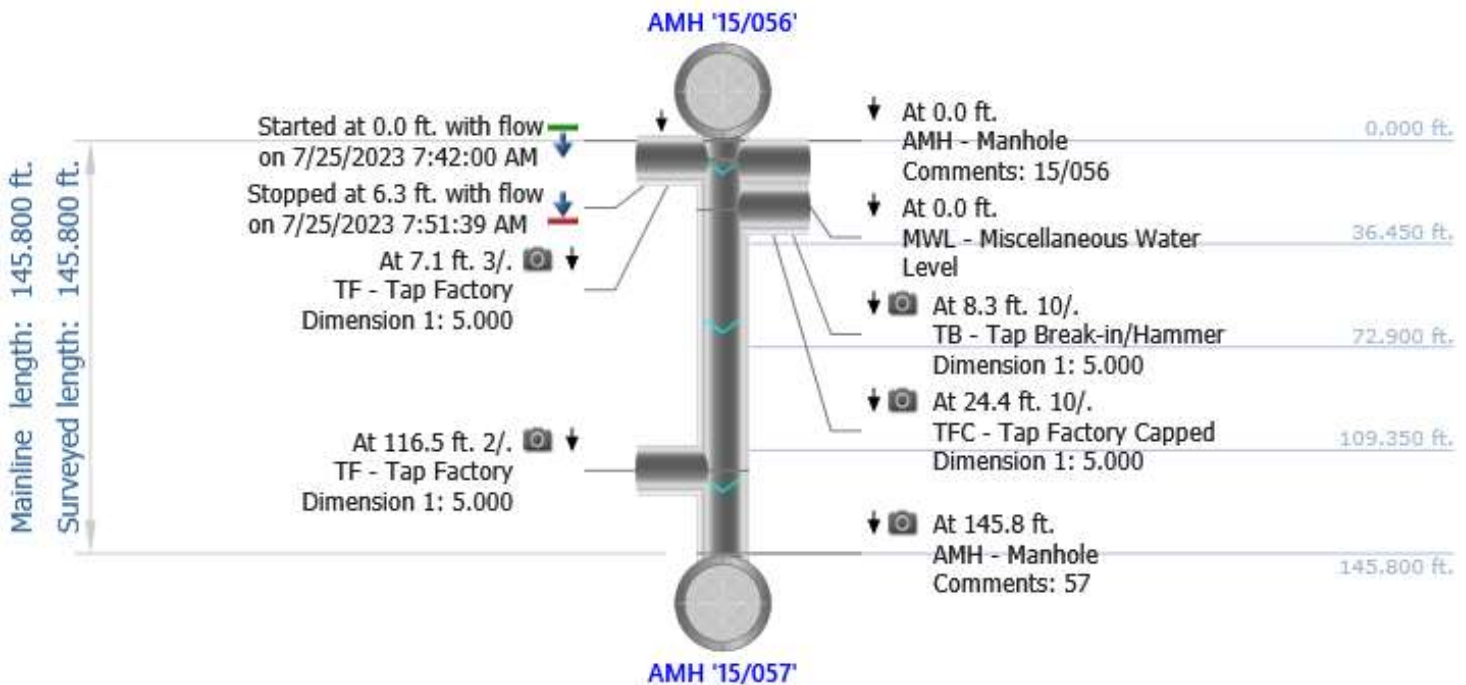


## NWMCC INSPECTION REPORT

Start date/time: 20230725 07:42	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/056 - 15/057
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: STEARNS ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/056	Downstream MH No: 15/057	Direction: D	Total length: 145.800 ft.	Length surveyed: 145.800 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: STEARNS ST	Start date/time: 20230725 07:42	Pipe segment ref.: 15/056 - 15/057
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Photo: 15\_056-15\_057-20230725-074305.JPG  
At: 7.1 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_056-15\_057-20230725-074318.JPG  
At: 8.3 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_056-15\_057-20230725-074427.JPG  
At: 24.4 ft. 10/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_056-15\_057-20230725-074708.JPG  
At: 116.5 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_056-15\_057-20230725-074831.JPG

At: 145.8 ft. AMH - Manhole

Joint: No 57





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

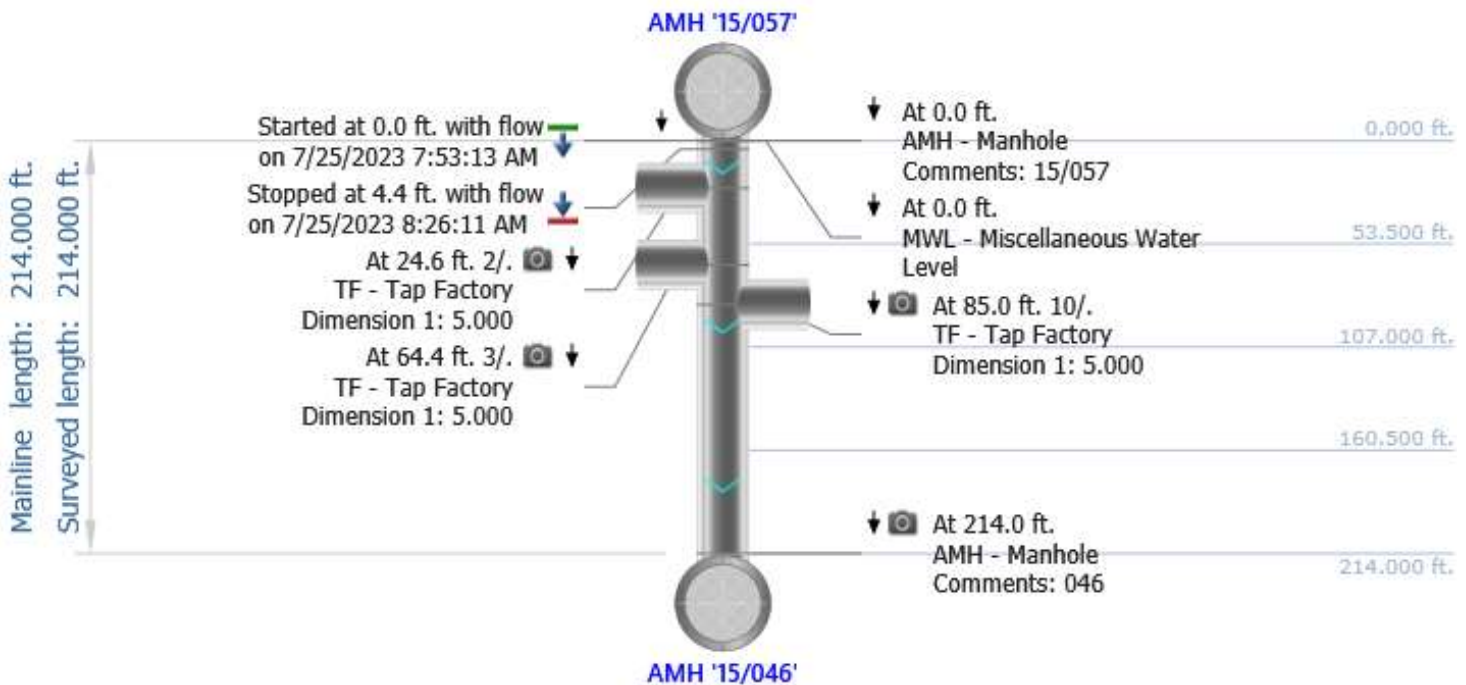


## NWMCC INSPECTION REPORT

Start date/time: 20230725 07:53	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/057 - 15/046
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BONNEY ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/057	Downstream MH No: 15/046	Direction: D	Total length: 214.000 ft.	Length surveyed: 214.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City:	Street:	Start date/time:	Pipe segment ref.:
WESTWOOD MA	BONNEY ST	20230725 07:53	15/057 - 15/046



Photo: 15\_057-15\_046-20230725-080904.JPG  
At: 24.6 ft. 2/. TF - Tap Factory  
Joint: No



Photo: 15\_057-15\_046-20230725-081046.JPG  
At: 64.4 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_057-15\_046-20230725-081143.JPG  
At: 85 ft. 10/. TF - Tap Factory  
Joint: No



Photo: 15\_057-15\_046-20230725-081624.JPG  
At: 214 ft. AMH - Manhole  
Joint: No 046



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



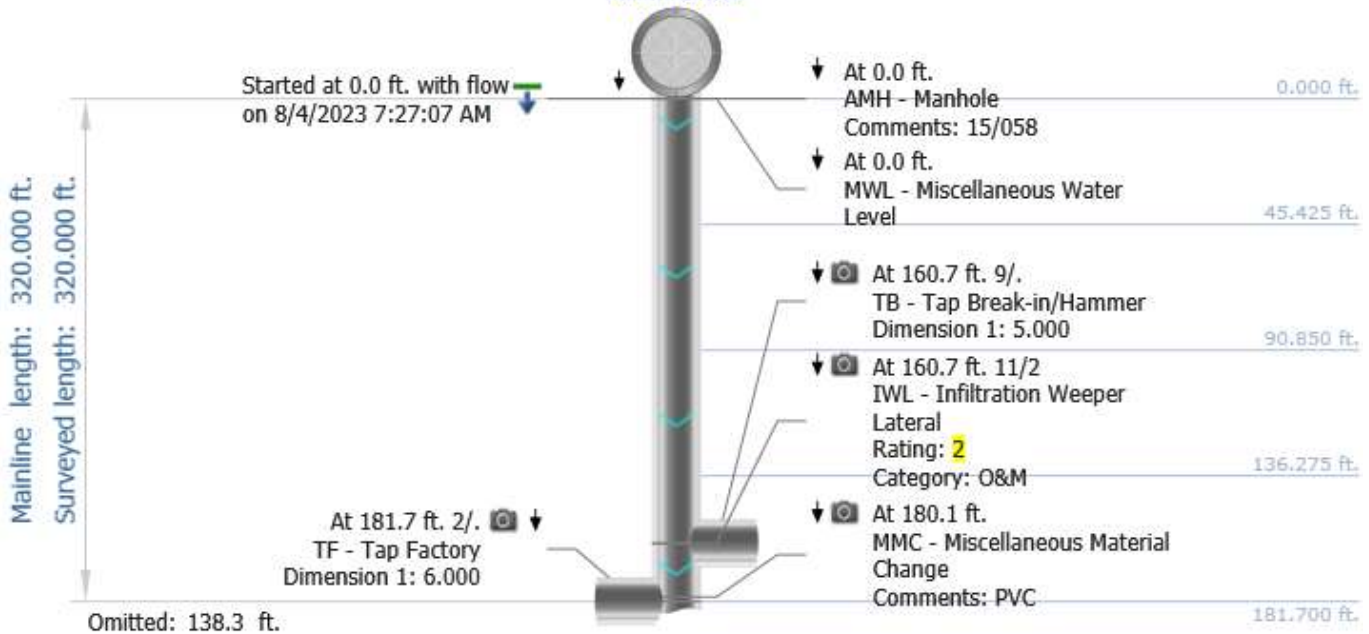
## NWMCC INSPECTION REPORT

Start date/time: 20230804 07:27	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/058 -15/059
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: COLBURN ST CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/058	Downstream MH No: 15/059	Direction: D	Total length: 320.000 ft.	Length surveyed: 320.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

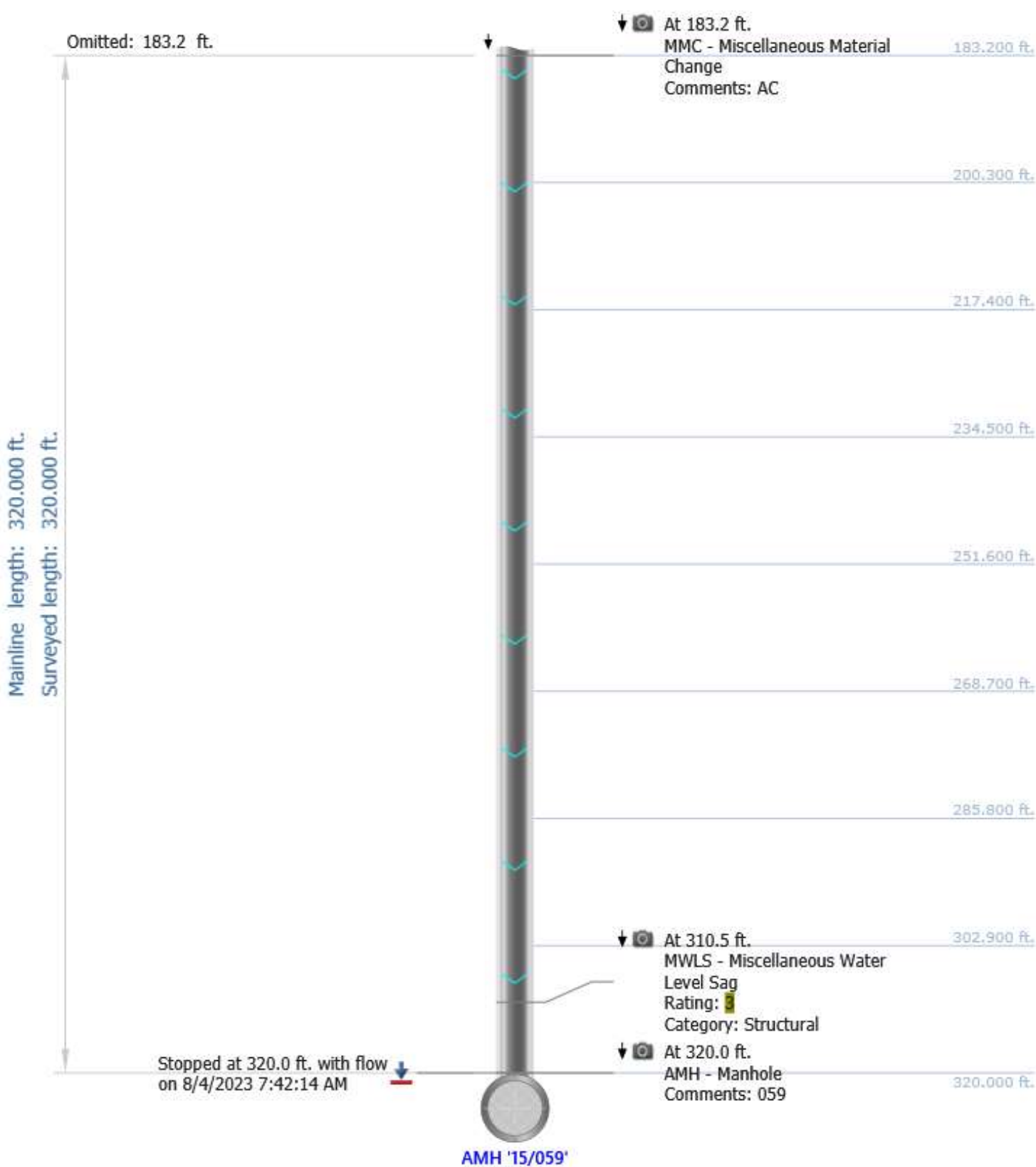
### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	3	3100	3.0	0	0	2	2100	2.0	5	2.5	3.1	
2	0	0				0	2							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							

#### AMH '15/058'







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST CC	Start date/time: 20230804 07:27	Pipe segment ref.: 15/058 -15/059
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Photo: 15\_058-15\_059-20230804-073503.JPG  
At: 160.7 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_058-15\_059-20230804-073521.JPG  
At: 160.7 ft. IWL - Infiltration Weeper Lateral  
11/2  
Joint: No



Photo: 15\_058-15\_059-20230804-073611.JPG  
At: 180.1 ft. MMC - Miscellaneous Material Change  
Joint: No PVC



Photo: 15\_058-15\_059-20230804-073627.JPG  
At: 181.7 ft. 2/. TF - Tap Factory  
Joint: No



Distance: 183.2 ft.  
MMC - Miscellaneous Material Change  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
AC

Photo: 15\_058-15\_059-20230804-073642.JPG  
At: 183.2 ft. MMC - Miscellaneous Material Change  
Joint: No AC



Distance: 310.5 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 3  
Dimension 1:  
Dimension 2:  
%: 35 %

Photo: 15\_058-15\_059-20230804-074004.JPG  
At: 310.5 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 35 %



Distance: 320.0 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
059

Photo: 15\_058-15\_059-20230804-074101.JPG  
At: 320 ft. AMH - Manhole  
Joint: No 059



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>





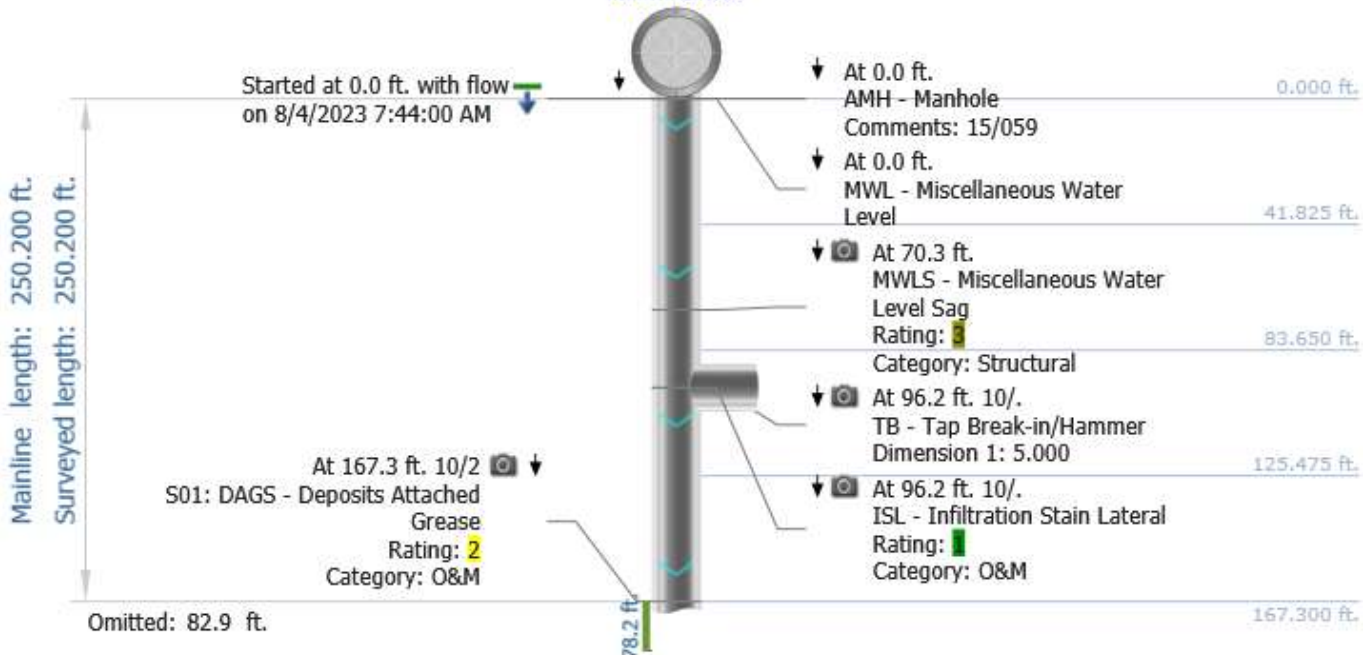
## NWMCC INSPECTION REPORT

Start date/time: 20230804 07:44	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/059 - 15/060
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: COLBURN ST CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/059	Downstream MH No: 15/060	Direction: D	Total length: 250.200 ft.	Length surveyed: 250.200 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

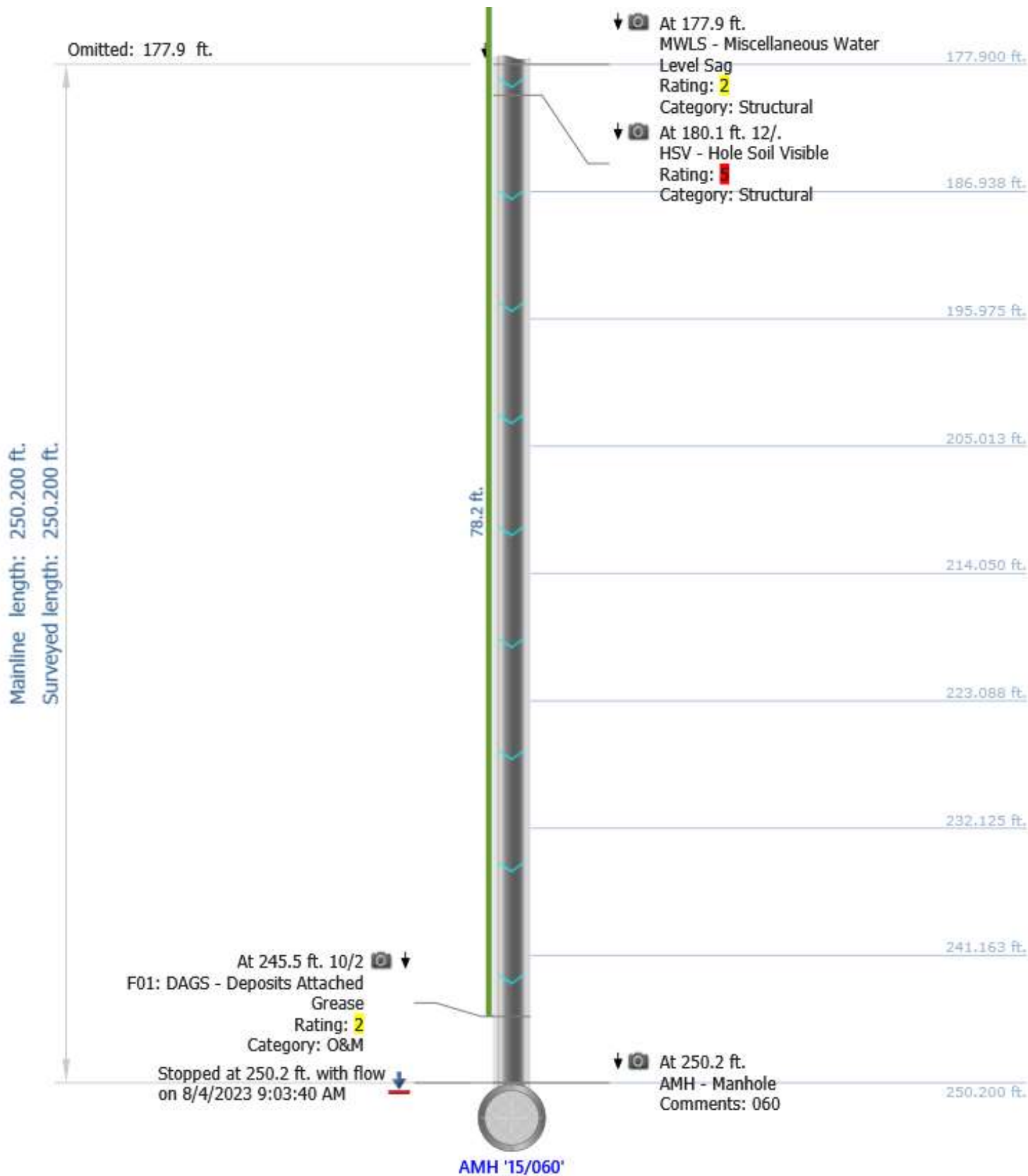
### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	10	5131	3.3	0	1	33	2B11	1.9	43	2.2	5.1	
2	0	2				0	32							
3	0	3				0	0							
4	0	0				0	0							
5	0	5				0	0							

#### AMH '15/059'







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST CC	Start date/time: 20230804 07:44	Pipe segment ref.: 15/059 - 15/060
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Photo: 15\_059-15\_060-20230804-085304.JPG  
At: 70.3 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 35 %

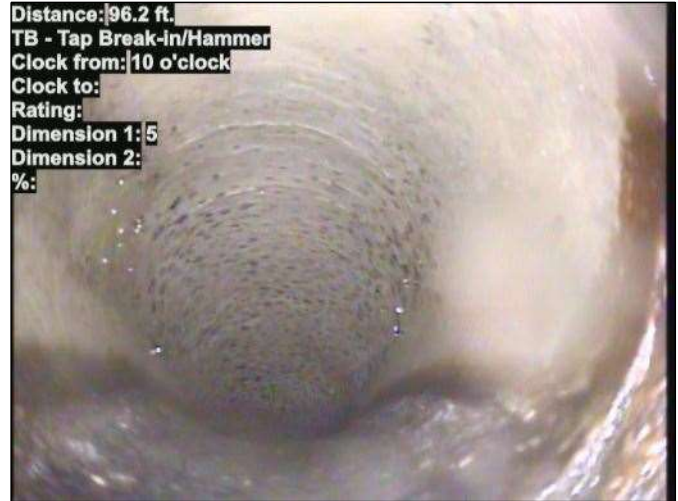


Photo: 15\_059-15\_060-20230804-085430.JPG  
At: 96.2 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_059-15\_060-20230804-085444.JPG  
At: 96.2 ft. 10/. ISL - Infiltration Stain Lateral  
Joint: No



Photo: 15\_059-15\_060-20230804-085713.JPG  
At: 167.3 ft. DAGS - Deposits Attached Grease  
10/2  
Joint: No 5 %



Distance: 177.9 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 25 %

Photo: 15\_059-15\_060-20230804-085751.JPG  
At: 177.9 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 25 %



Distance: 180.1 ft.  
HSV - Hole Soil Visible  
Clock from: 12 o'clock  
Clock to:  
Rating: 5  
Dimension 1:  
Dimension 2:  
%:

Photo: 15\_059-15\_060-20230804-085823.JPG  
At: 180.1 ft. 12/. HSV - Hole Soil Visible  
Joint: No



Distance: 245.5 ft.  
DAGS - Deposits Attached Grease  
Clock from: 10 o'clock  
Clock to: 2 o'clock  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 5 %

Photo: 15\_059-15\_060-20230804-090132.JPG  
At: 245.5 ft. DAGS - Deposits Attached Grease  
10/2  
Joint: No 5 %



Distance: 250.2 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
060

Photo: 15\_059-15\_060-20230804-090253.JPG  
At: 250.2 ft. AMH - Manhole  
Joint: No 060



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



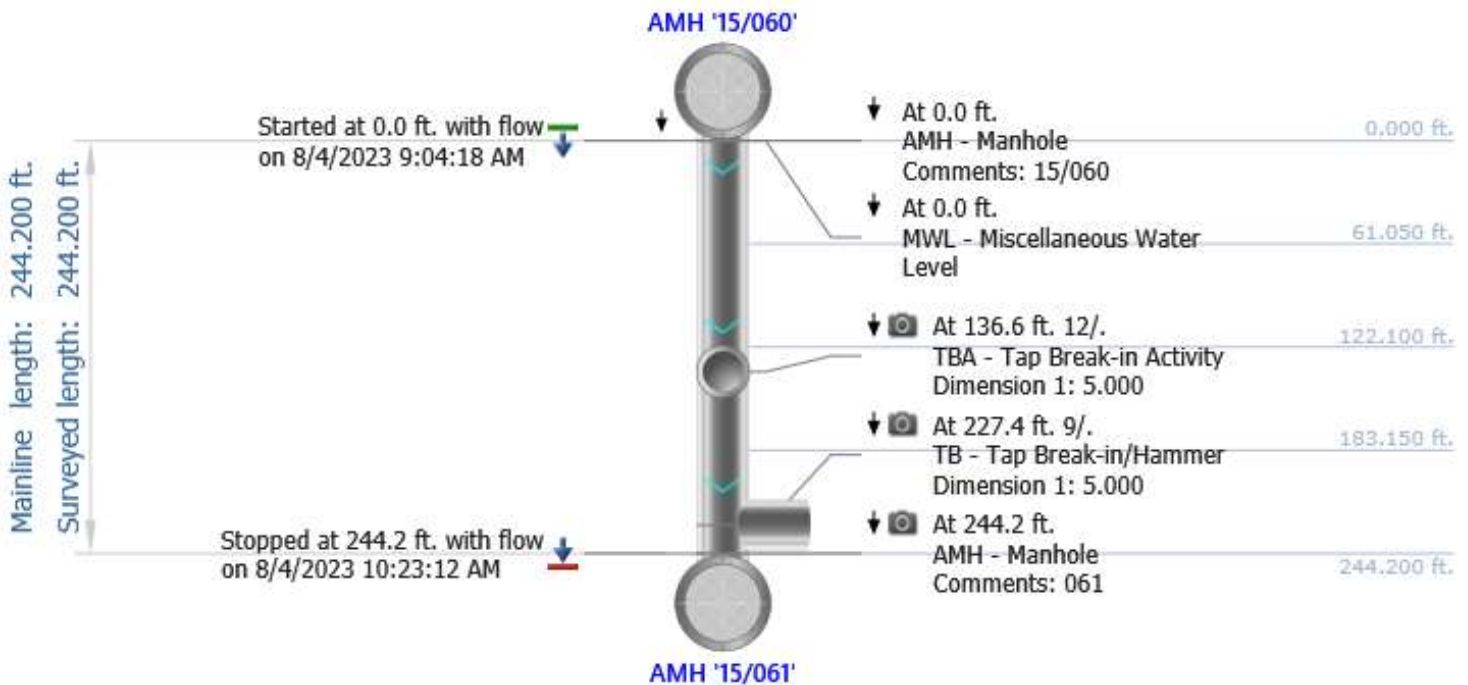


## NWMCC INSPECTION REPORT

Start date/time: 20230804 09:04	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/060 - 15/061
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: COLBURN ST CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/060	Downstream MH No: 15/061	Direction: D	Total length: 244.200 ft.	Length surveyed: 244.200 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: COLBURN ST CC	Start date/time: 20230804 09:04	Pipe segment ref.: 15/060 - 15/061
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Photo: 15\_060-15\_061-20230804-101808.JPG  
At: 136.6 ft. 12/. TBA - Tap Break-in Activity  
Joint: No



Photo: 15\_060-15\_061-20230804-102139.JPG  
At: 227.4 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_060-15\_061-20230804-102229.JPG  
At: 244.2 ft. AMH - Manhole  
Joint: No 061



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

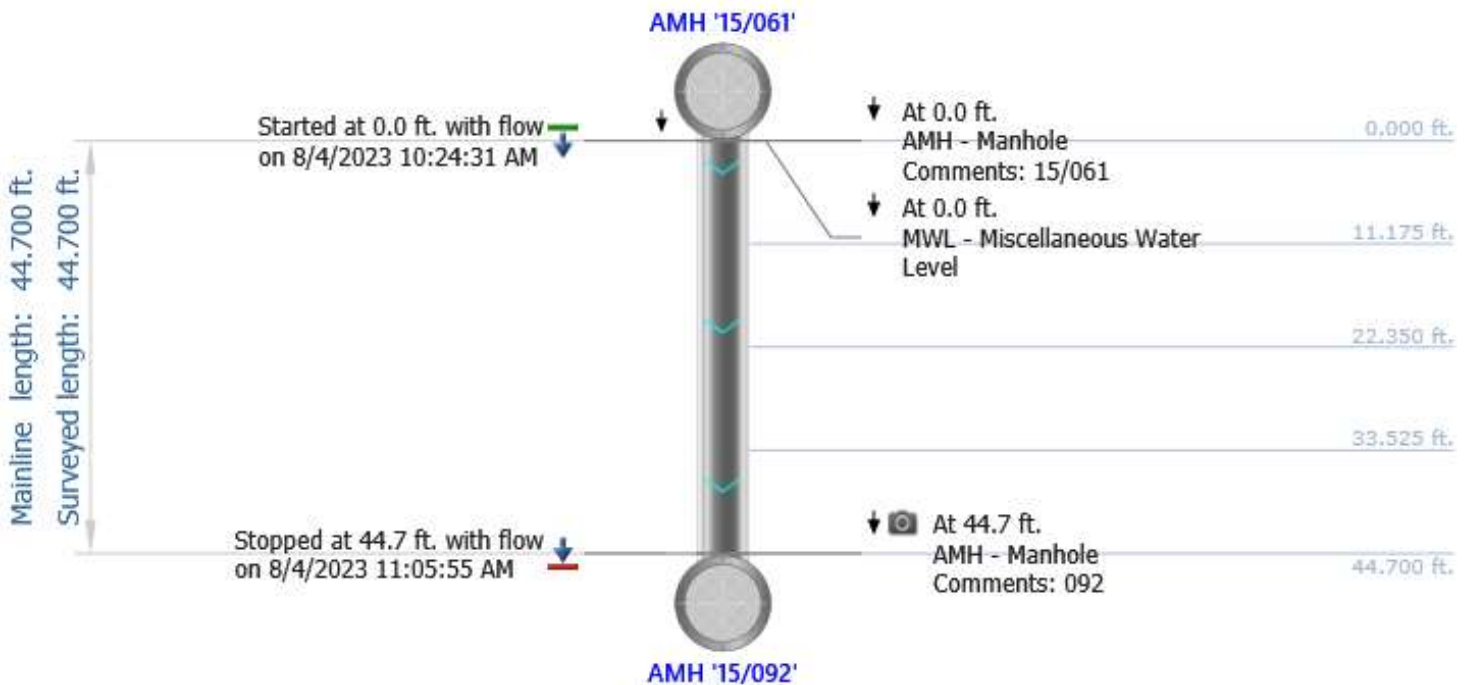


## NWMCC INSPECTION REPORT

Start date/time: 20230804 10:24	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/061 - 15/092
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: OLD CARRIAGE RD CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/061	Downstream MH No: 15/092	Direction: D	Total length: 44.700 ft.	Length surveyed: 44.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: OLD CARRIAGE RD CC	Start date/time: 20230804 10:24	Pipe segment ref.: 15/061 - 15/092
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Photo: 15\_061-15\_092-20230804-110527.JPG

At: 44.7 ft. AMH - Manhole

Joint: No 092



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



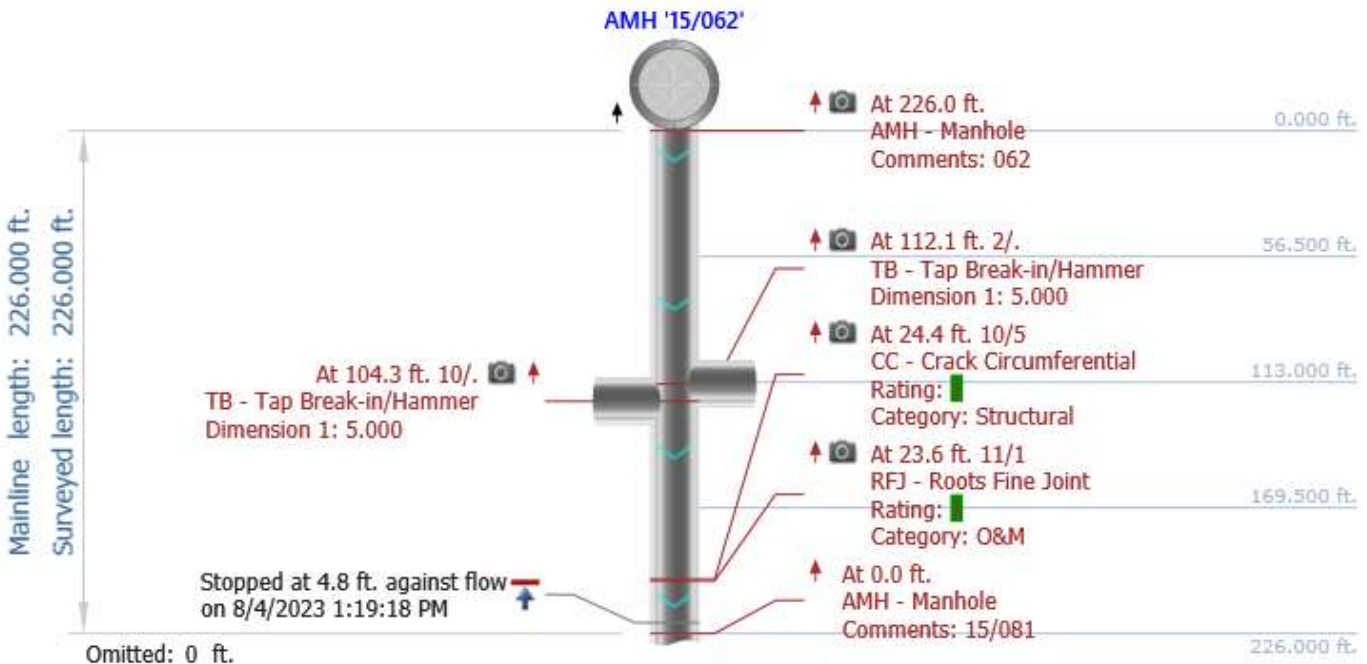


## NWMCC INSPECTION REPORT

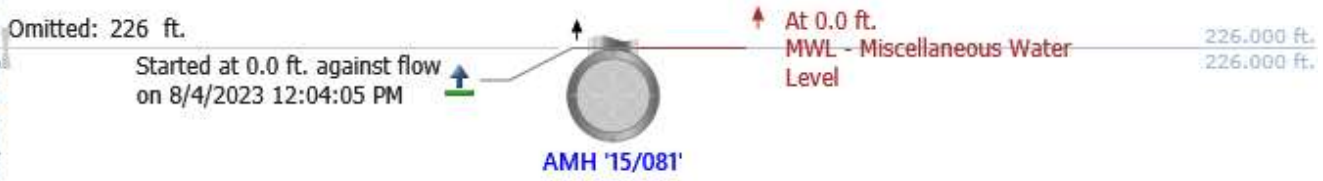
Start date/time: 20230804 12:04	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/081 - 15/062
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: CLAPBOARD ST CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/062	Downstream MH No: 15/081	Direction: U	Total length: 226.000 ft.	Length surveyed: 226.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	1	1	1100	1.0	0	1	1	1100	1.0	2	1.0	1.2	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 226.000 ft.  
Surveyed length: 226.000 ft.



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: CLAPBOARD ST CC	Start date/time: 20230804 12:04	Pipe segment ref.: 15/081 - 15/062
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Photo: 15\_062-15\_081-20230804-124046.JPG  
At: 23.6 ft. 11/1 RFJ - Roots Fine Joint  
Joint: Yes



Photo: 15\_062-15\_081-20230804-121254\_1.JPG  
At: 24.4 ft. 10/5 CC - Crack Circumferential  
Joint: No

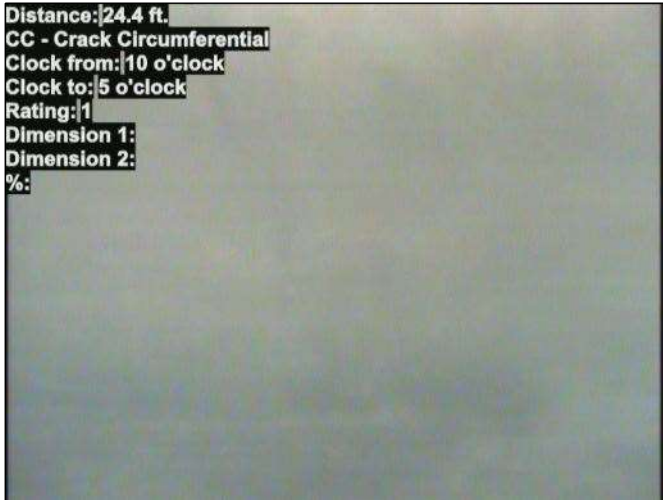


Photo: 15\_062-15\_081-20230804-121254.JPG  
At: 24.4 ft. 10/5 CC - Crack Circumferential  
Joint: No



Photo: 15\_062-15\_081-20230804-122905\_1.JPG  
At: 104.3 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 104.3 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_062-15\_081-20230804-122905.JPG  
At: 104.3 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 104.3 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_062-15\_081-20230804-122810\_1.JPG  
At: 112.1 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 112.1 ft.  
TB - Tap Break-in/Hammer  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_062-15\_081-20230804-122810.JPG  
At: 112.1 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 226.0 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

Photo: 15\_062-15\_081-20230804-124947.JPG  
At: 226 ft. AMH - Manhole  
Joint: No 062



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



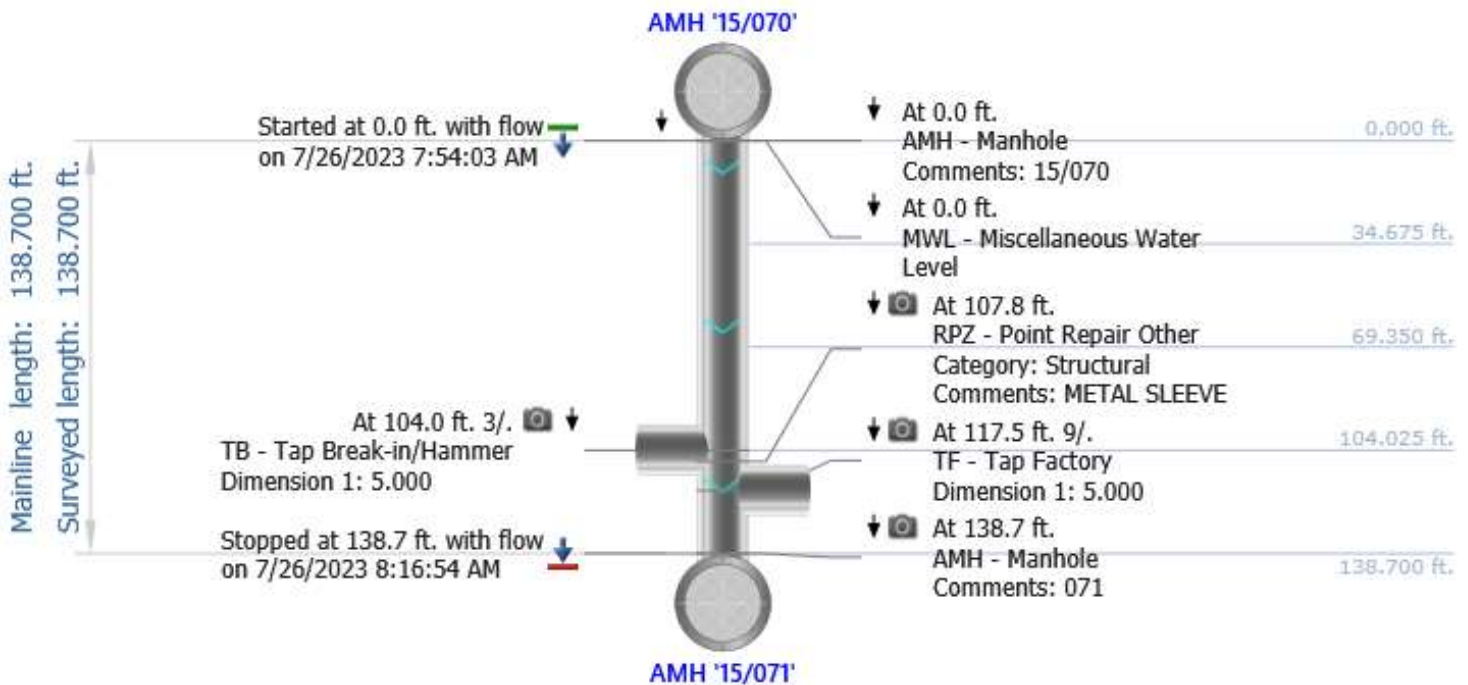


## NWMCC INSPECTION REPORT

Start date/time: 20230726 07:54	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/070 - 15/071
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/070	Downstream MH No: 15/071	Direction: D	Total length: 138.700 ft.	Length surveyed: 138.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 07:54	Pipe segment ref.: 15/070 - 15/071
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Photo: 15\_070-15\_071-20230726-081322.JPG  
At: 104 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_070-15\_071-20230726-081401.JPG  
At: 107.8 ft. RPZ - Point Repair Other  
Joint: No METAL SLEEVE

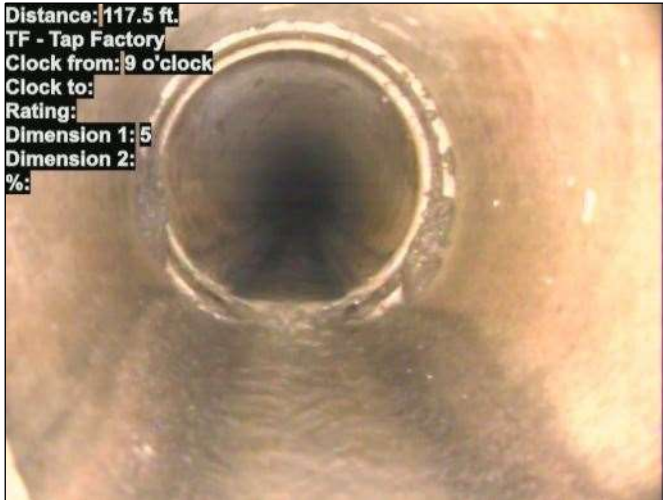


Photo: 15\_070-15\_071-20230726-081528.JPG  
At: 117.5 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_070-15\_071-20230726-081636.JPG  
At: 138.7 ft. AMH - Manhole  
Joint: No 071



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



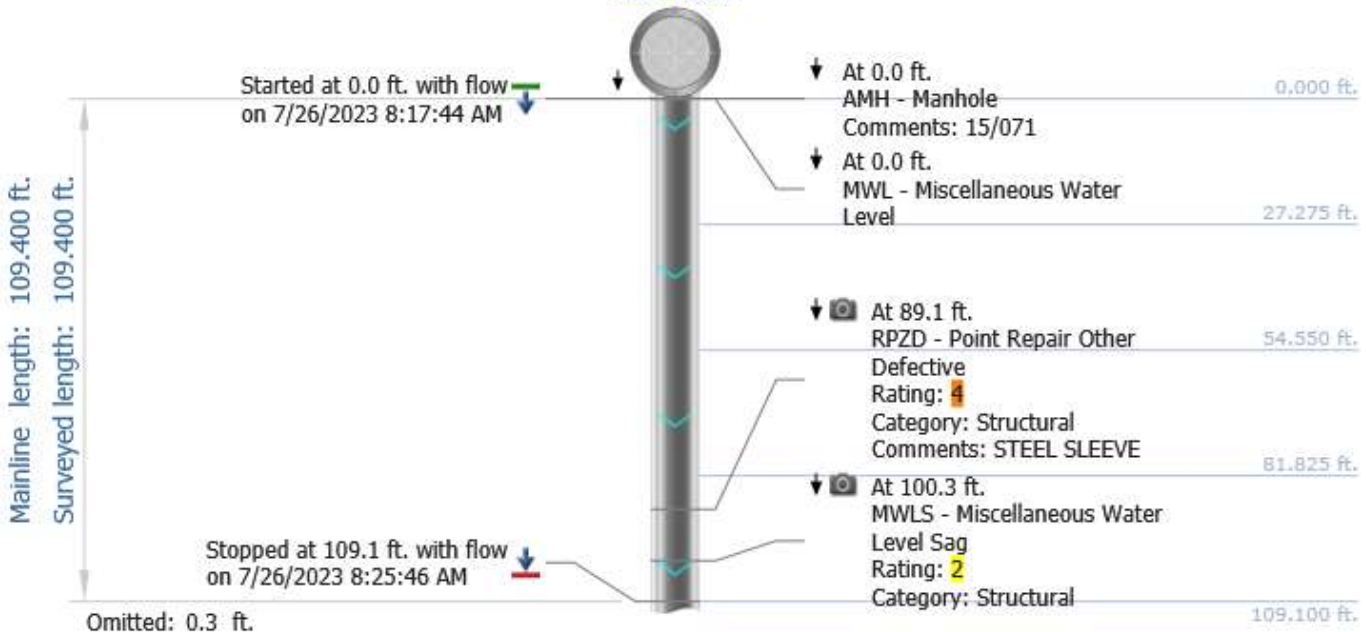
## NWMCC INSPECTION REPORT

Start date/time: 20230726 08:17	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/071 -15/072
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/071	Downstream MH No: 15/072	Direction: D	Total length: 109.400 ft.	Length surveyed: 109.400 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	6	4121	3.0	0	0	0	0000	0.0	6	3.0	4.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	4				0	0							
5	0	0				0	0							

AMH '15/071'



Mainline length: 109,400 ft.  
Surveyed length: 109,400 ft.

Omitted: 109.4 ft.



At 109.4 ft.  
AMH - Manhole  
Comments: 072

109,400 ft.  
109,400 ft.



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 08:17	Pipe segment ref.: 15/071 -15/072
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Photo: 15\_071-15\_072-20230726-082330\_1.JPG  
At: 89.1 ft. RPZD - Point Repair Other Defective  
Joint: No STEEL SLEEVE



Photo: 15\_071-15\_072-20230726-082330.JPG  
At: 89.1 ft. RPZD - Point Repair Other Defective  
Joint: No STEEL SLEEVE



Photo: 15\_071-15\_072-20230726-082427.JPG  
At: 100.3 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 10 %



Photo: 15\_071-15\_072-20230726-082516.JPG  
At: 109.4 ft. AMH - Manhole  
Joint: No 072



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

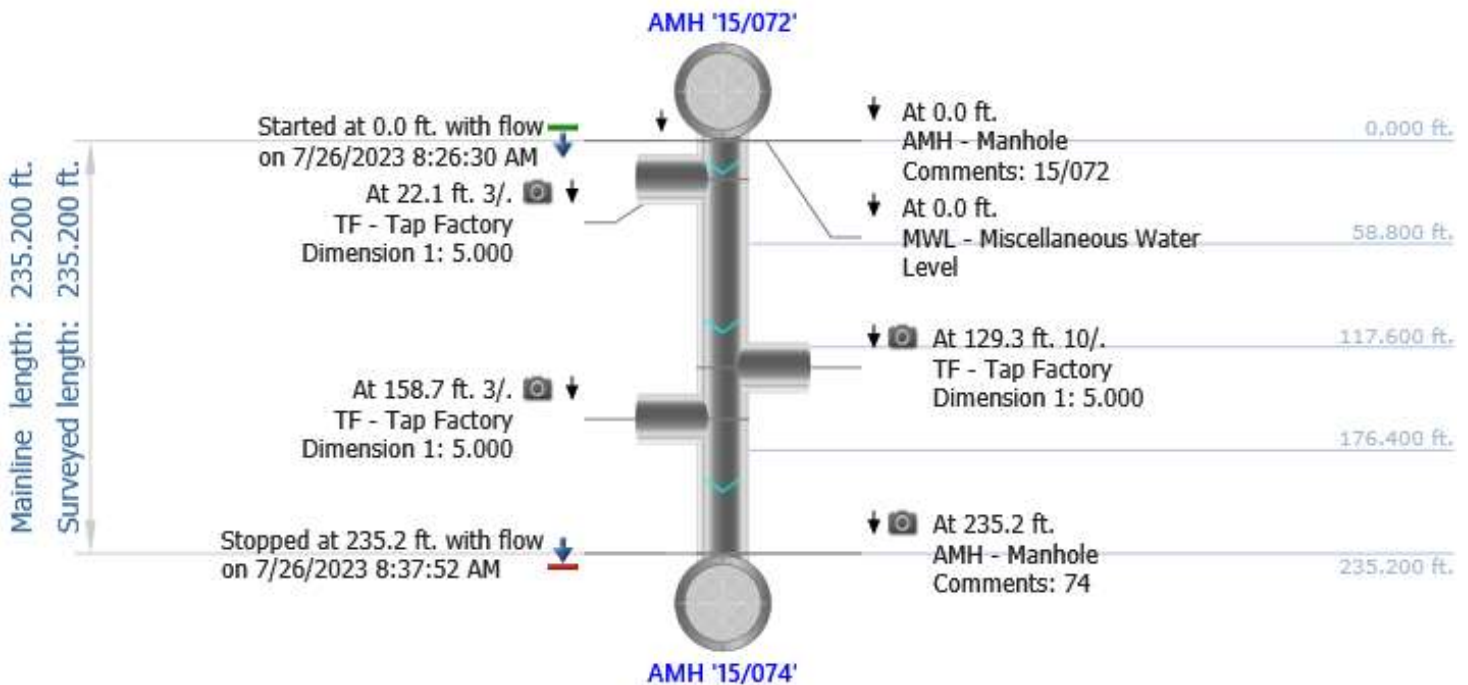


## NWMCC INSPECTION REPORT

Start date/time: 20230726 08:26	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/072 - 15/074
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/072	Downstream MH No: 15/074	Direction: D	Total length: 235.200 ft.	Length surveyed: 235.200 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 08:26	Pipe segment ref.: 15/072 - 15/074
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Distance: 22.1 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_072-15\_074-20230726-082832.JPG  
At: 22.1 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 129.3 ft.  
TF - Tap Factory  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_072-15\_074-20230726-083321.JPG  
At: 129.3 ft. 10/. TF - Tap Factory  
Joint: No



Distance: 158.7 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_072-15\_074-20230726-083440.JPG  
At: 158.7 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 235.2 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
74  
Photo: 15\_072-15\_074-20230726-083726.JPG  
At: 235.2 ft. AMH - Manhole  
Joint: No 74



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



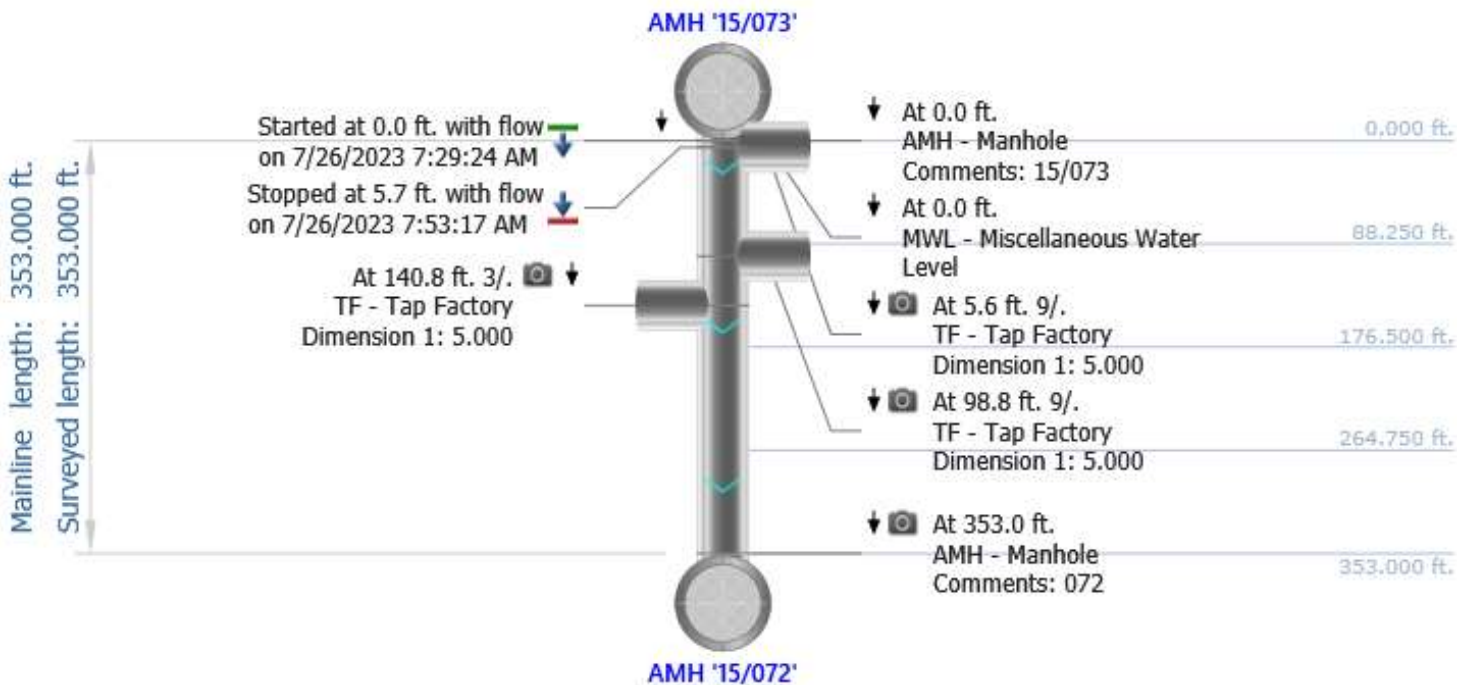


## NWMCC INSPECTION REPORT

Start date/time: 20230726 07:29	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/073 - 15/072
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WELLINGTON DR	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/073	Downstream MH No: 15/072	Direction: D	Total length: 353.000 ft.	Length surveyed: 353.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WELLINGTON DR	Start date/time: 20230726 07:29	Pipe segment ref.: 15/073 - 15/072
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Photo: 15\_073-15\_072-20230726-073132.JPG  
At: 5.6 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_073-15\_072-20230726-073444.JPG  
At: 98.8 ft. 9/. TF - Tap Factory  
Joint: No

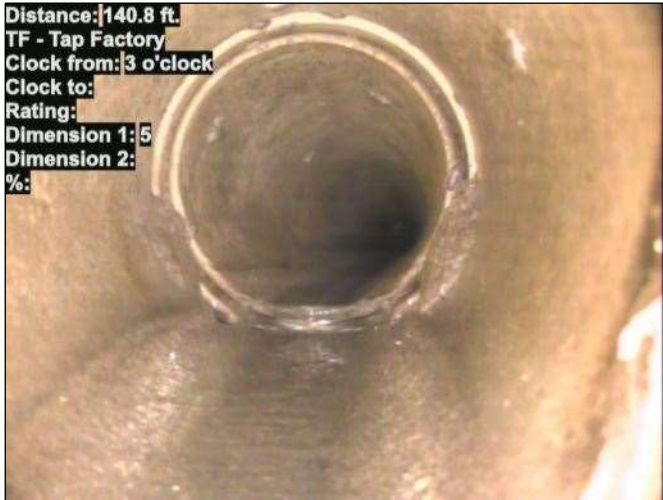


Photo: 15\_073-15\_072-20230726-073617.JPG  
At: 140.8 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_073-15\_072-20230726-074332.JPG  
At: 353 ft. AMH - Manhole  
Joint: No 072



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



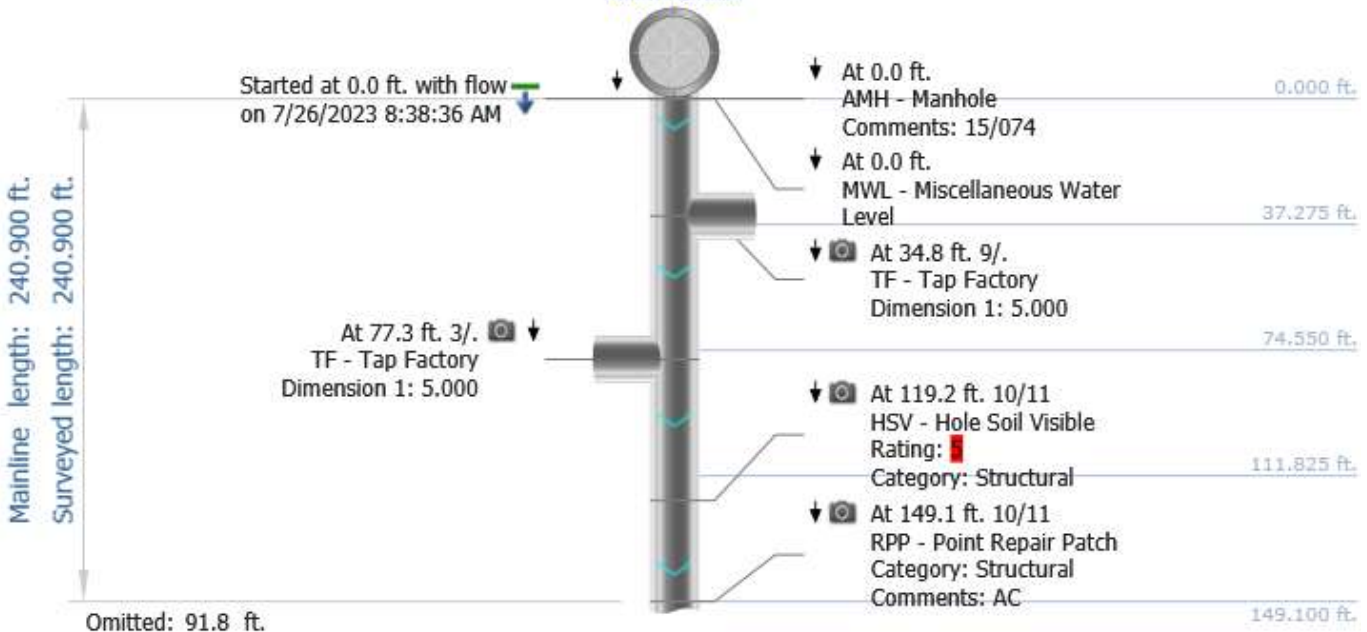
## NWMCC INSPECTION REPORT

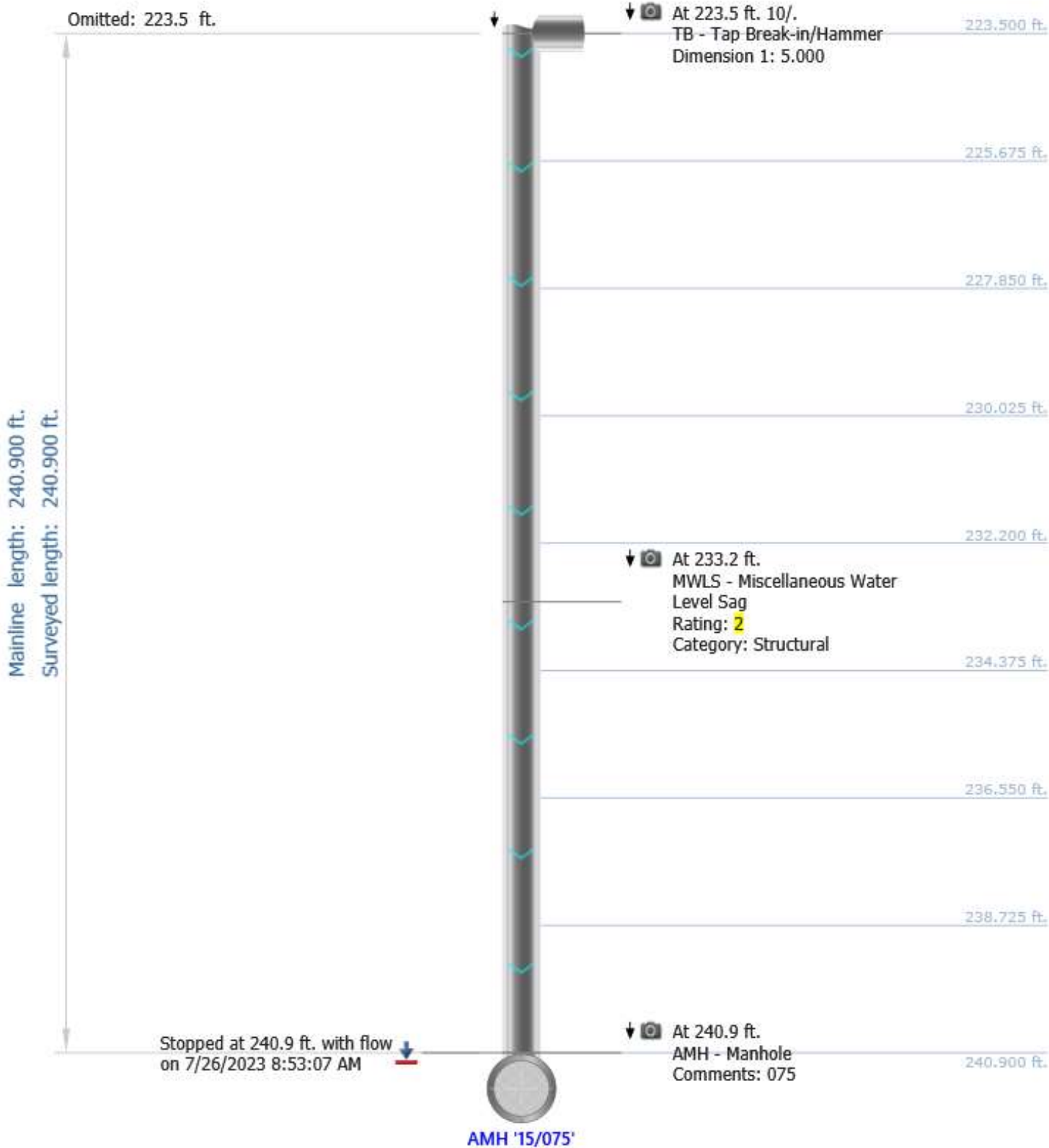
Start date/time: 20230726 08:38	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/074 - 15/075
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/074	Downstream MH No: 15/075	Direction: D	Total length: 240.900 ft.	Length surveyed: 240.900 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	7	5121	3.5	0	0	0	0000	0.0	7	3.5	5.1	
2	0	2				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	5				0	0							

AMH '15/074'







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 08:38	Pipe segment ref.: 15/074 - 15/075
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Photo: 15\_074-15\_075-20230726-084200.JPG  
At: 34.8 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_074-15\_075-20230726-084338.JPG  
At: 77.3 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_074-15\_075-20230726-084550.JPG  
At: 119.2 ft. HSV - Hole Soil Visible  
10/11  
Joint: No



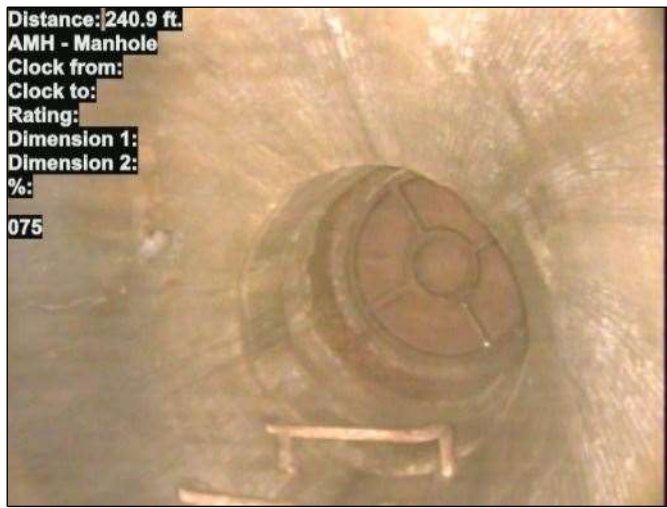
Photo: 15\_074-15\_075-20230726-084741.JPG  
At: 149.1 ft. RPP - Point Repair Patch  
10/11  
Joint: No AC



Distance: 223.5 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_074-15\_075-20230726-085044.JPG  
At: 223.5 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 233.2 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 2  
Dimension 1:  
Dimension 2:  
%: 10 %  
Photo: 15\_074-15\_075-20230726-085126.JPG  
At: 233.2 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 10 %



Distance: 240.9 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
075  
Photo: 15\_074-15\_075-20230726-085204.JPG  
At: 240.9 ft. AMH - Manhole  
Joint: No 075



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

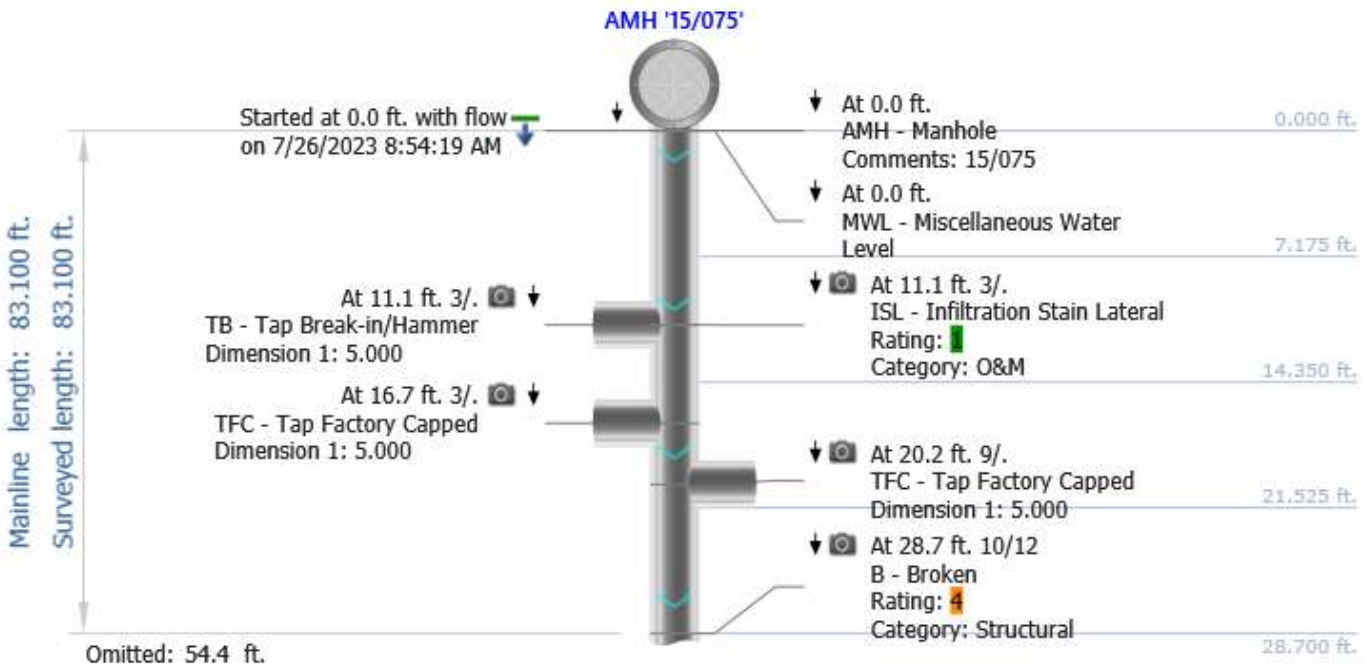


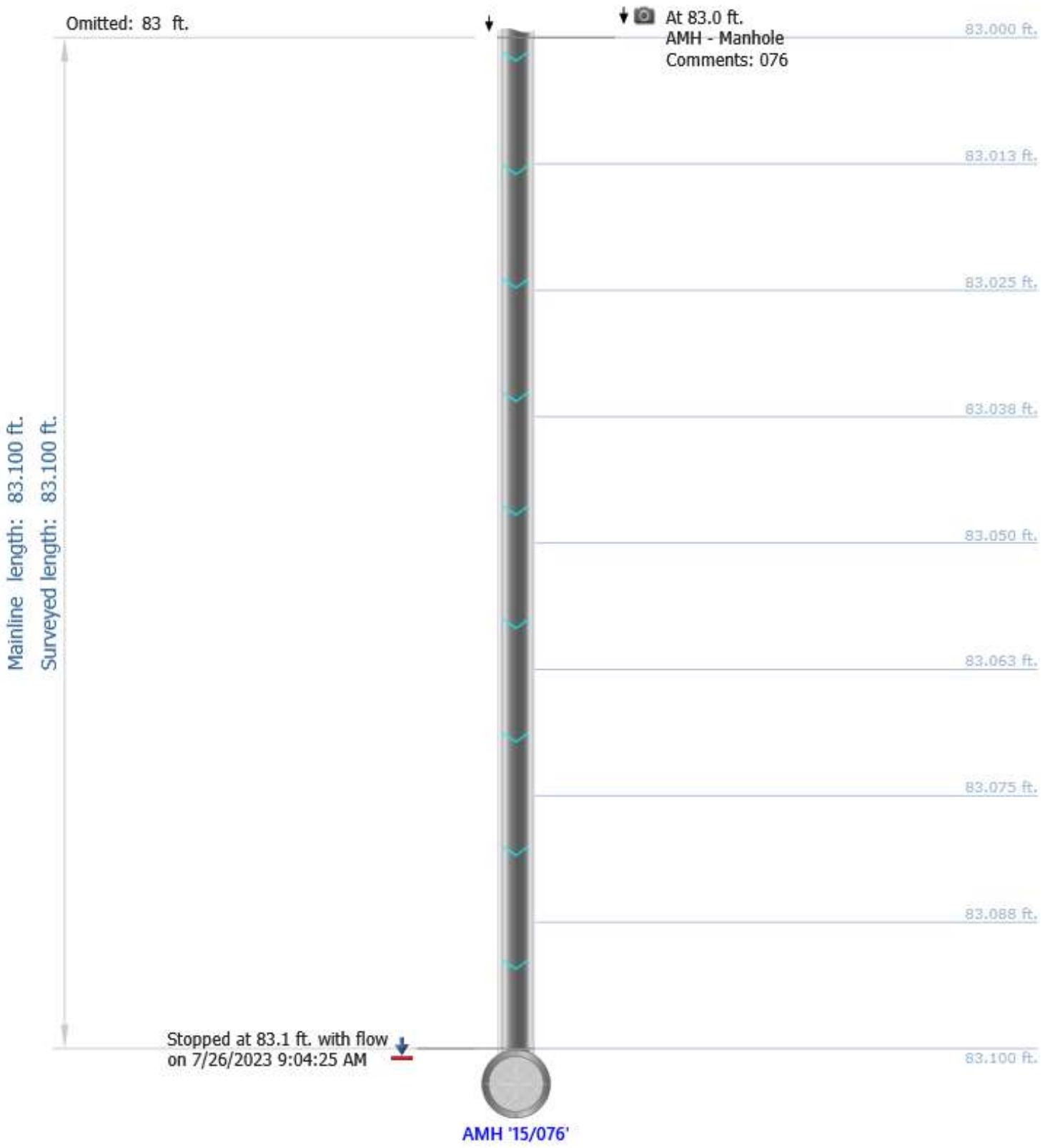
## NWMCC INSPECTION REPORT

Start date/time: 20230726 08:54	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/075 - 15/076
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/075	Downstream MH No: 15/076	Direction: D	Total length: 83.100 ft.	Length surveyed: 83.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	4	4100	4.0	0	1	1	1100	1.0	5	2.5	4.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	4				0	0							
5	0	0				0	0							







# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 08:54	Pipe segment ref.: 15/075 - 15/076
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Photo: 15\_075-15\_076-20230726-085703.JPG  
At: 11.1 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_075-15\_076-20230726-085724.JPG  
At: 11.1 ft. 3/. ISL - Infiltration Stain Lateral  
Joint: No



Photo: 15\_075-15\_076-20230726-085822.JPG  
At: 16.7 ft. 3/. TFC - Tap Factory Capped  
Joint: No



Photo: 15\_075-15\_076-20230726-085906.JPG  
At: 20.2 ft. 9/. TFC - Tap Factory Capped  
Joint: No



Distance: 28.7 ft.  
B - Broken  
Clock from: 10 o'clock  
Clock to: 12 o'clock  
Rating: 4  
Dimension 1:  
Dimension 2:  
%:

Photo: 15\_075-15\_076-20230726-090013.JPG

At: 28.7 ft. B - Broken  
10/12

Joint: No



Distance: 83.0 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

076

Photo: 15\_075-15\_076-20230726-090335.JPG

At: 83 ft. AMH - Manhole

Joint: No 076



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

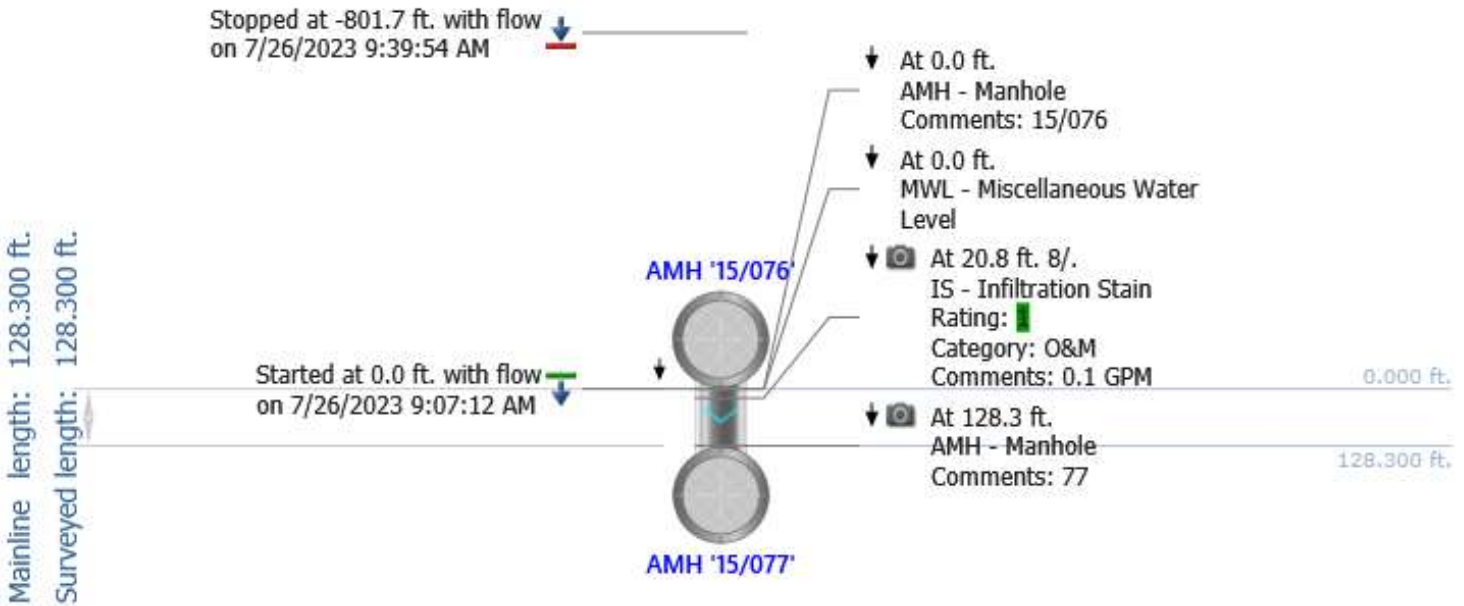


## NWMCC INSPECTION REPORT

Start date/time: 20230726 09:07	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/076 - 15/077
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/076	Downstream MH No: 15/077	Direction: D	Total length: 128.300 ft.	Length surveyed: 128.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	1	1	1100	1.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 09:07	Pipe segment ref.: 15/076 - 15/077
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Photo: 15\_076-15\_077-20230726-091027.JPG  
At: 20.8 ft. 8/. IS - Infiltration Stain  
Joint: No 0.1 GPM

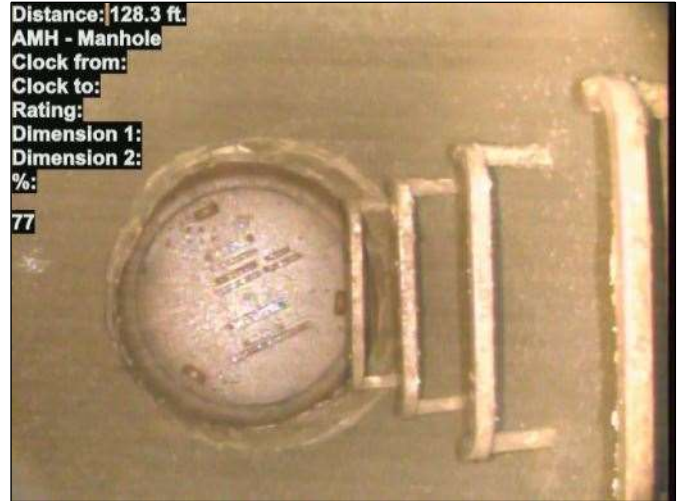


Photo: 15\_076-15\_077-20230726-091926.JPG  
At: 128.3 ft. AMH - Manhole  
Joint: No 77





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

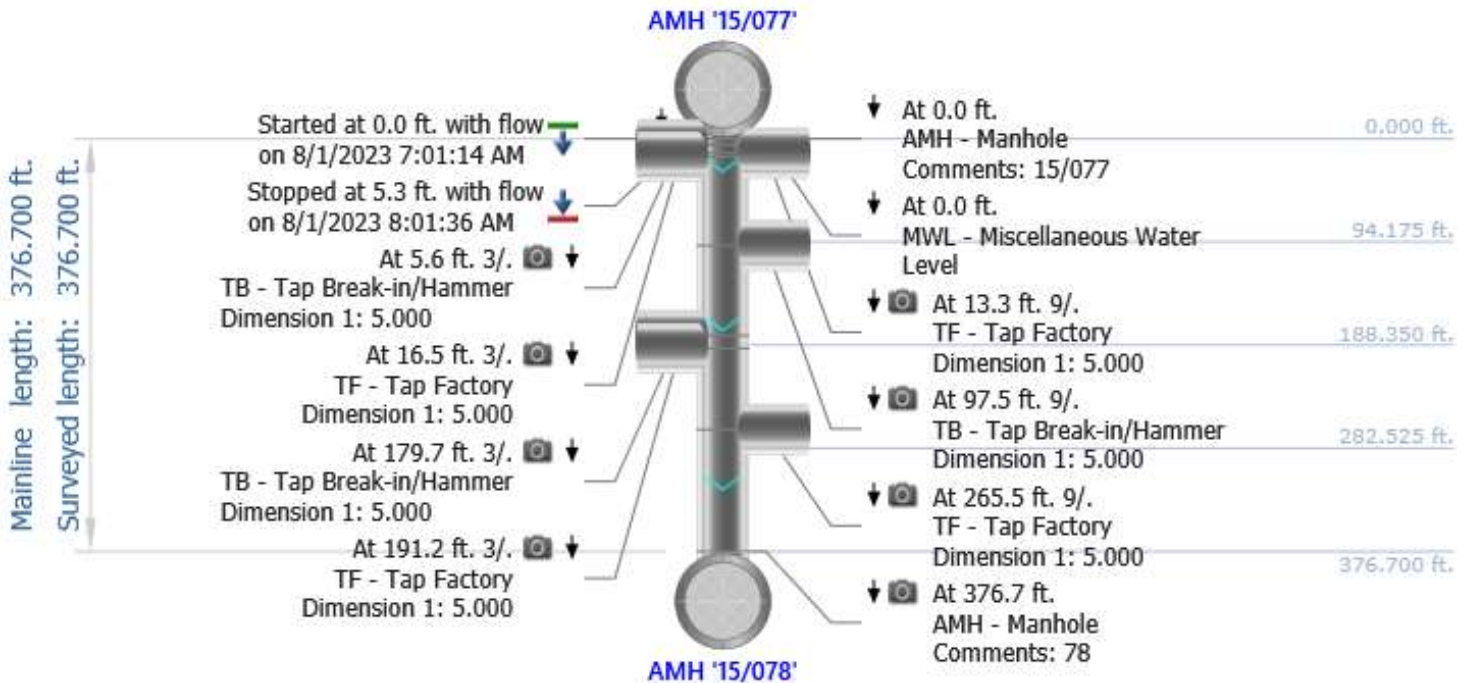


## NWMCC INSPECTION REPORT

Start date/time: 20230801 07:01	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/077 - 15/078
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/077	Downstream MH No: 15/078	Direction: D	Total length: 376.700 ft.	Length surveyed: 376.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230801 07:01	Pipe segment ref.: 15/077 - 15/078
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Photo: 15\_077-15\_078-20230801-071416.JPG  
At: 5.6 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: 15\_077-15\_078-20230801-071451.JPG  
At: 13.3 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_077-15\_078-20230801-071511.JPG  
At: 16.5 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_077-15\_078-20230801-071731.JPG  
At: 97.5 ft. 9/. TB - Tap Break-in/Hammer  
Joint: No





Distance: 179.7 ft.  
TB - Tap Break-in/Hammer  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_077-15\_078-20230801-072022.JPG  
At: 179.7 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 191.2 ft.  
TF - Tap Factory  
Clock from: 3 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_077-15\_078-20230801-072059.JPG  
At: 191.2 ft. 3/. TF - Tap Factory  
Joint: No



Distance: 265.5 ft.  
TF - Tap Factory  
Clock from: 9 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_077-15\_078-20230801-072316.JPG  
At: 265.5 ft. 9/. TF - Tap Factory  
Joint: No



Distance: 376.7 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
78

Photo: 15\_077-15\_078-20230801-072646.JPG  
At: 376.7 ft. AMH - Manhole  
Joint: No 78



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



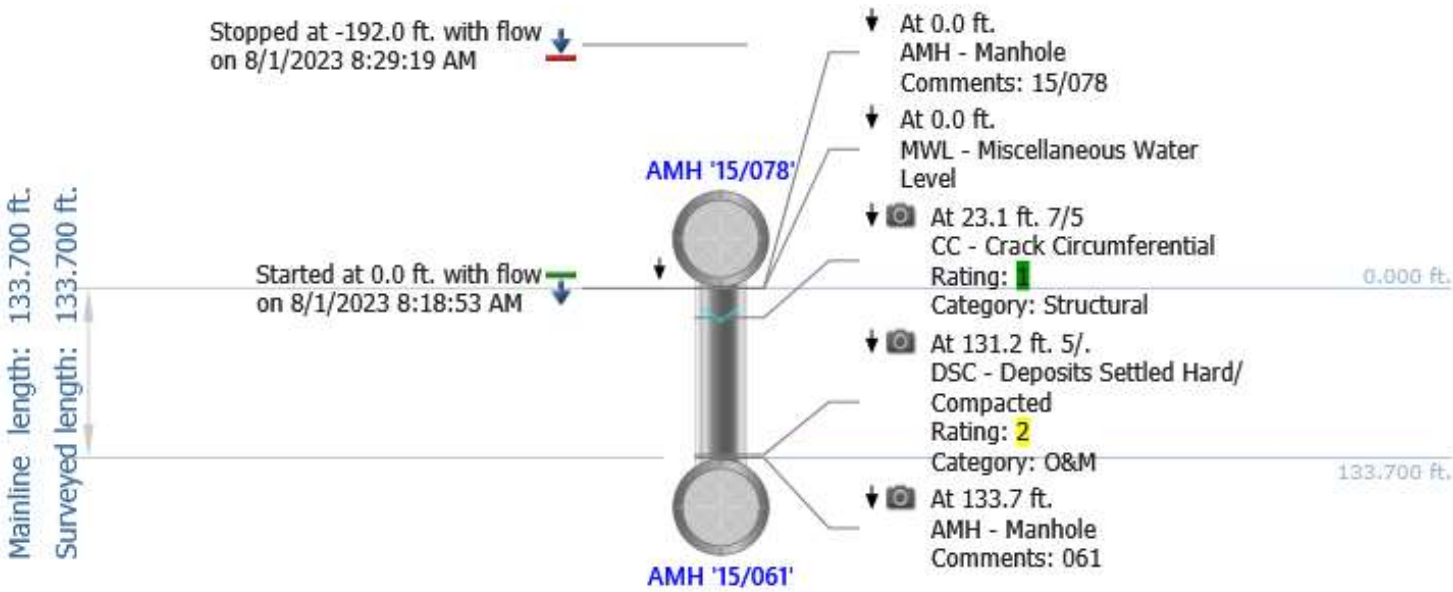


## NWMCC INSPECTION REPORT

Start date/time: 20230801 08:18	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/078 - 15/061
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13
City: WESTWOOD MA	Street: OLDE CARRIAGE RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/078	Downstream MH No: 15/061	Direction: D	Total length: 133.700 ft.	Length surveyed: 133.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	1	1	1100	1.0	0	0	2	2100	2.0	3	1.5	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: OLDE CARRIAGE RD	Start date/time: 20230801 08:18	Pipe segment ref.: 15/078 - 15/061
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Photo: 15\_078-15\_061-20230801-082048.JPG  
At: 23.1 ft. 7/5 CC - Crack Circumferential  
Joint: No



Photo: 15\_078-15\_061-20230801-082338.JPG  
At: 131.2 ft. 5/. DSC - Deposits Settled Hard/Compacted  
Joint: No 5 %



Photo: 15\_078-15\_061-20230801-082420.JPG  
At: 133.7 ft. AMH - Manhole  
Joint: No 061



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

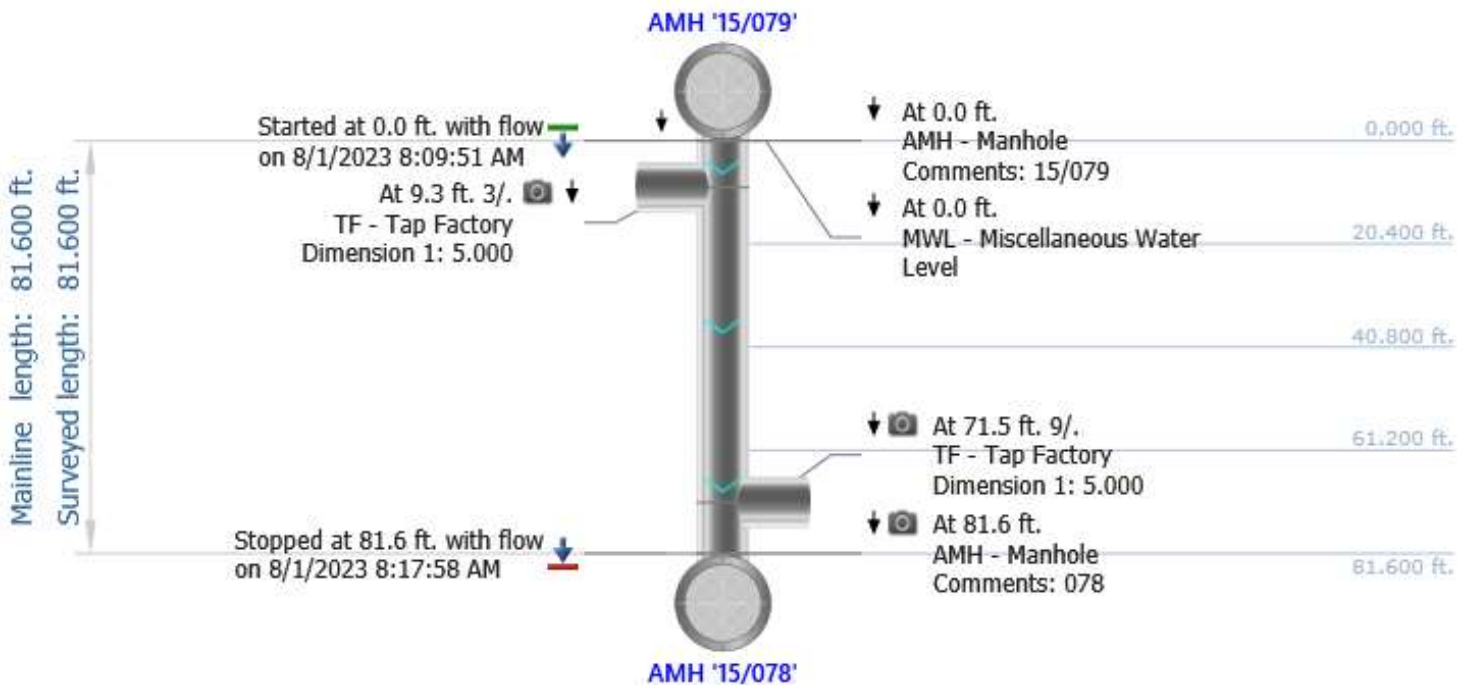


## NWMCC INSPECTION REPORT

Start date/time: 20230801 08:09	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/079 - 15/078	
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13	
City: WESTWOOD MA	Street: OLDE CARRIAGE RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: _____	Flow control: _____
Upstream MH No: 15/079	Downstream MH No: 15/078	Direction: D	Total length: 81.600 ft.	Length surveyed: 81.600 ft.	
Purpose: Maintenance Related	Pipe joint length: _____	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: _____	Additional info: _____

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: OLDE CARRIAGE RD	Start date/time: 20230801 08:09	Pipe segment ref.: 15/079 - 15/078
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Photo: 15\_079-15\_078-20230801-081157.JPG  
At: 9.3 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_079-15\_078-20230801-081627.JPG  
At: 71.5 ft. 9/. TF - Tap Factory  
Joint: No



Photo: 15\_079-15\_078-20230801-081727.JPG  
At: 81.6 ft. AMH - Manhole  
Joint: No 078





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

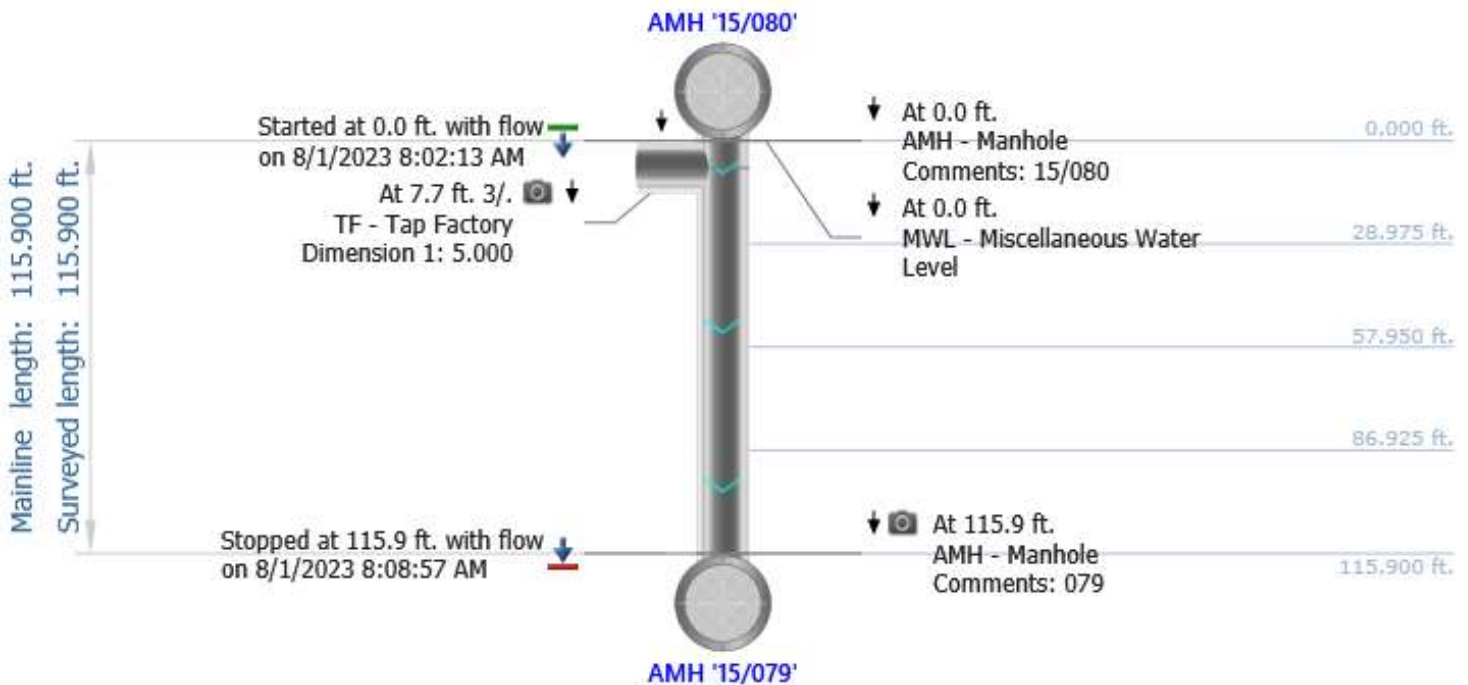


## NWMCC INSPECTION REPORT

Start date/time: 20230801 08:02	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/080 - 15/079	
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230801	Project name: ENV017-13	
City: WESTWOOD MA	Street: OLDE CARRIAGE RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area:	Flow control:
Upstream MH No: 15/080	Downstream MH No: 15/079	Direction: D	Total length: 115.900 ft.	Length surveyed: 115.900 ft.	
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter:	Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: OLDE CARRIAGE RD	Start date/time: 20230801 08:02	Pipe segment ref.: 15/080 - 15/079
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Photo: 15\_080-15\_079-20230801-080437.JPG  
At: 7.7 ft. 3/. TF - Tap Factory  
Joint: No



Photo: 15\_080-15\_079-20230801-080815.JPG  
At: 115.9 ft. AMH - Manhole  
Joint: No 079



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

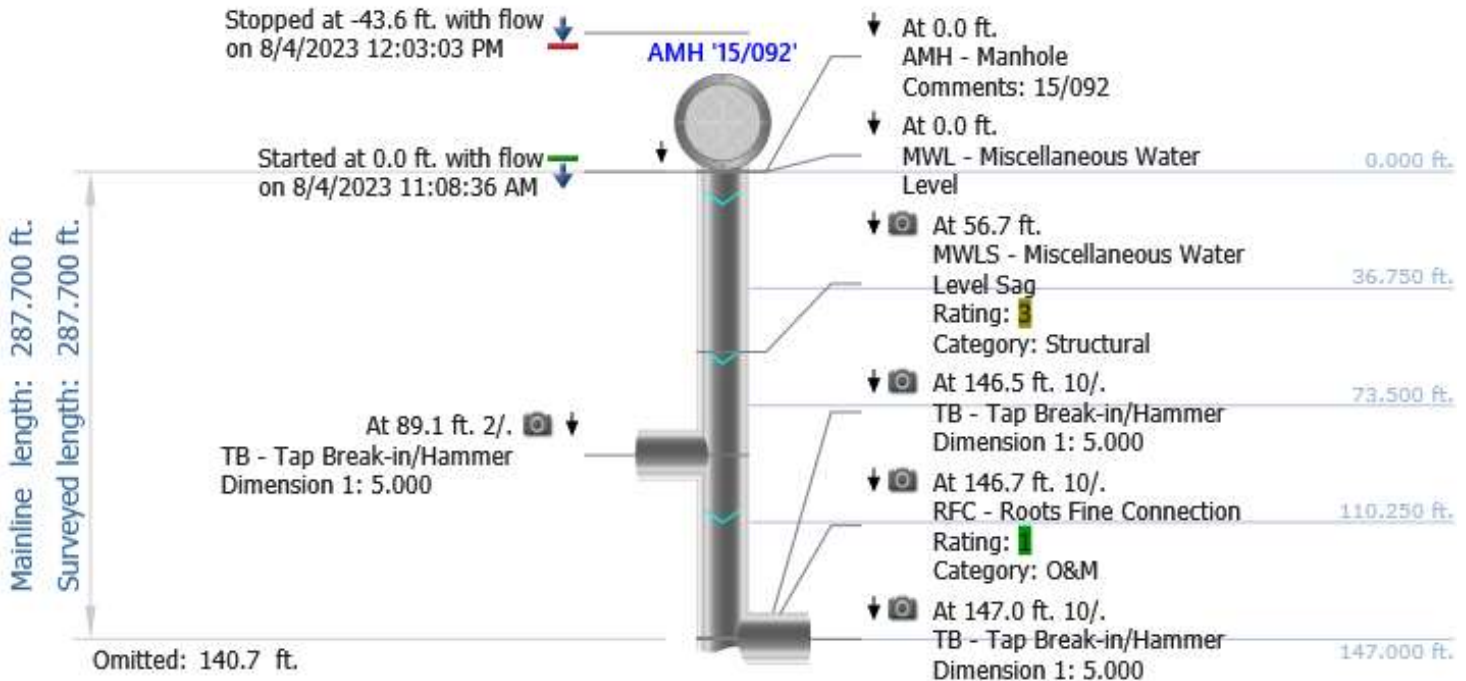


## NWMCC INSPECTION REPORT

Start date/time: 20230804 11:08	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/092 - 15/062
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: OLDE CARRIAGE RD CC	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/092	Downstream MH No: 15/062	Direction: D	Total length: 287.700 ft.	Length surveyed: 287.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	3	3100	3.0	0	1	1	1100	1.0	4	2.0	3.1	
2	0	0				0	0							
3	0	3				0	0							
4	0	0				0	0							
5	0	0				0	0							





Mainline length: 287.700 ft.  
Surveyed length: 287.700 ft.

Omitted: 287.7 ft.



AMH '15/062'



At 287.7 ft.  
AMH - Manhole  
Comments: BURRIED CNL

287.700 ft.  
287.700 ft.

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: OLDE CARRIAGE RD CC	Start date/time: 20230804 11:08	Pipe segment ref.: 15/092 - 15/062
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Distance: 56.7 ft.  
MWLS - Miscellaneous Water Level Sag  
Clock from:  
Clock to:  
Rating: 3  
Dimension 1:  
Dimension 2:  
%: 35 %  
Photo: 15\_092-15\_062-20230804-111229.JPG  
At: 56.7 ft. MWLS - Miscellaneous Water Level Sag  
Joint: No 35 %



Distance: 89.1 ft.  
TB - Tap Break-in/Hammer  
Clock from: 2 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_092-15\_062-20230804-112433.JPG  
At: 89.1 ft. 2/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 146.5 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:  
Photo: 15\_092-15\_062-20230804-112952.JPG  
At: 146.5 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 146.7 ft.  
RFC - Roots Fine Connection  
Clock from: 10 o'clock  
Clock to:  
Rating: 1  
Dimension 1:  
Dimension 2:  
%:  
Photo: 15\_092-15\_062-20230804-112815.JPG  
At: 146.7 ft. 10/. RFC - Roots Fine Connection  
Joint: No



Distance: 147.0 ft.  
TB - Tap Break-in/Hammer  
Clock from: 10 o'clock  
Clock to:  
Rating:  
Dimension 1: 5  
Dimension 2:  
%:

Photo: 15\_092-15\_062-20230804-112744.JPG  
At: 147 ft. 10/. TB - Tap Break-in/Hammer  
Joint: No



Distance: 287.7 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:

**BURRIED CNL**

Photo: 15\_092-15\_062-20230804-113603.JPG  
At: 287.7 ft. AMH - Manhole  
Joint: No BURRIED CNL



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

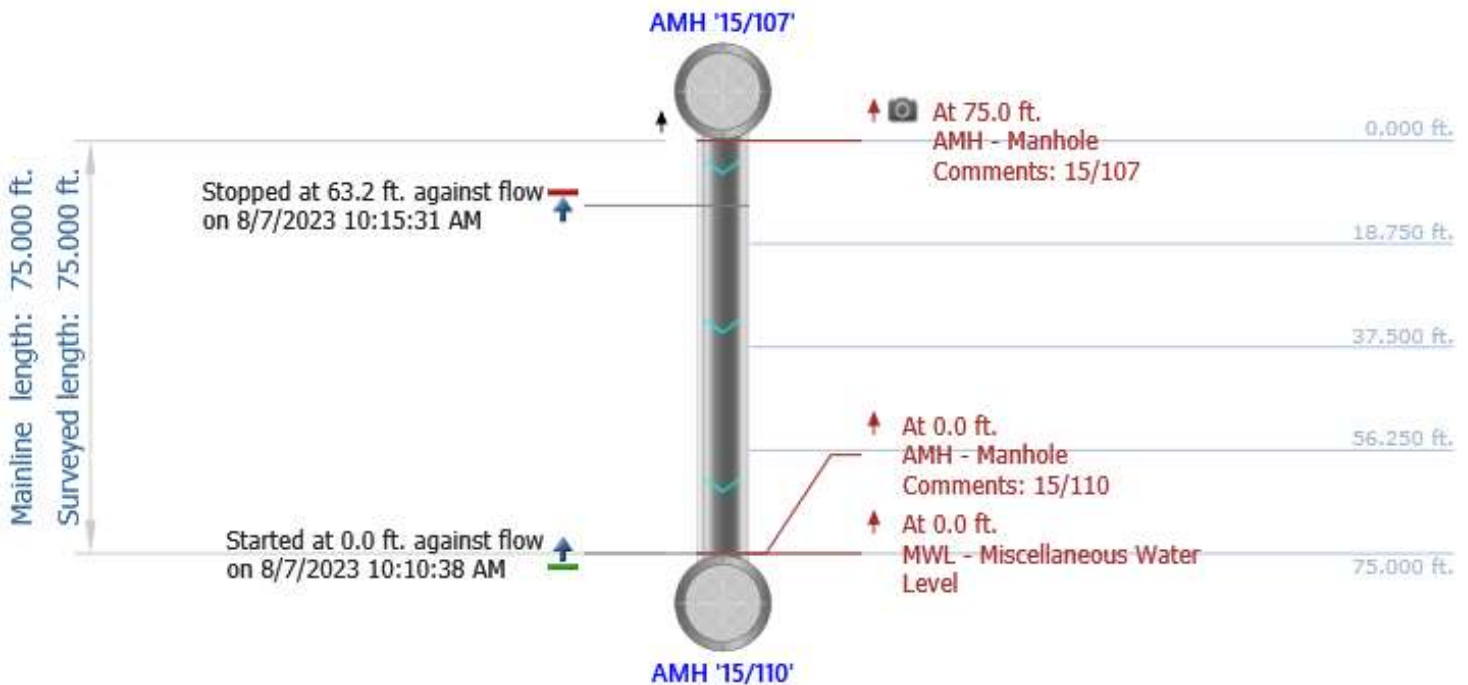


## NWMCC INSPECTION REPORT

Start date/time: 20230807 10:10	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/107-15/110
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/107	Downstream MH No: 15/110	Direction: U	Total length: 75.000 ft.	Length surveyed: 75.000 ft.
Purpose:	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 10:10	Pipe segment ref.: 15/107-15/110
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Photo: 15\_107-15\_110-20230807-101503.JPG  
At: 75 ft. AMH - Manhole  
Joint: No 15/107



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

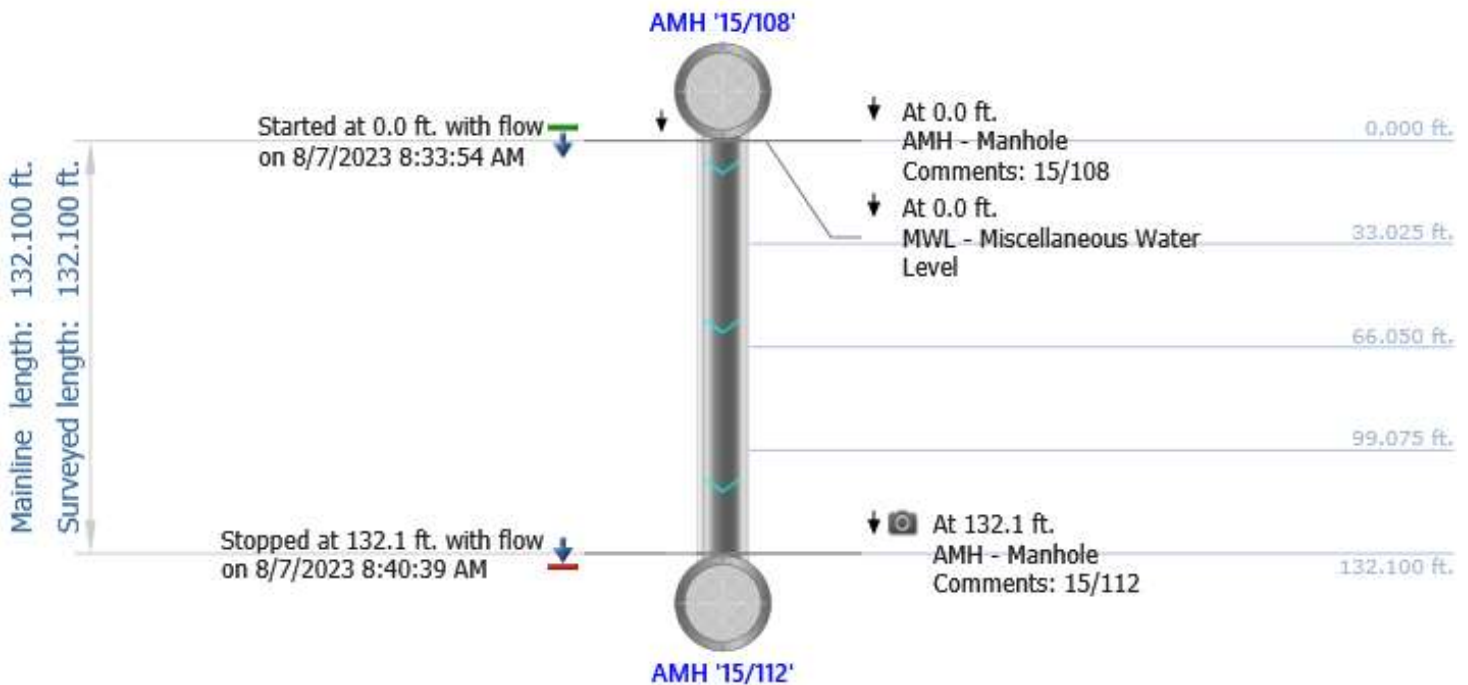


## NWMCC INSPECTION REPORT

Start date/time: 20230807 08:33	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/108-15/112
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/108	Downstream MH No: 15/112	Direction: D	Total length: 132.100 ft.	Length surveyed: 132.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 08:33	Pipe segment ref.: 15/108-15/112
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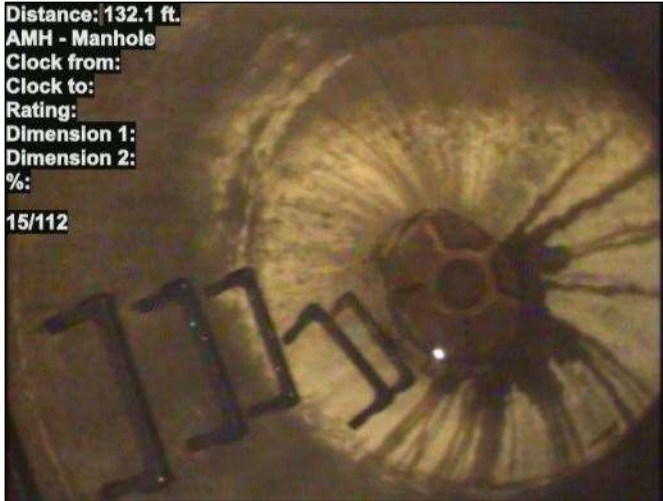


Photo: 15\_108-15\_112-20230807-084007.JPG  
At: 132.1 ft. AMH - Manhole  
Joint: No 15/112



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



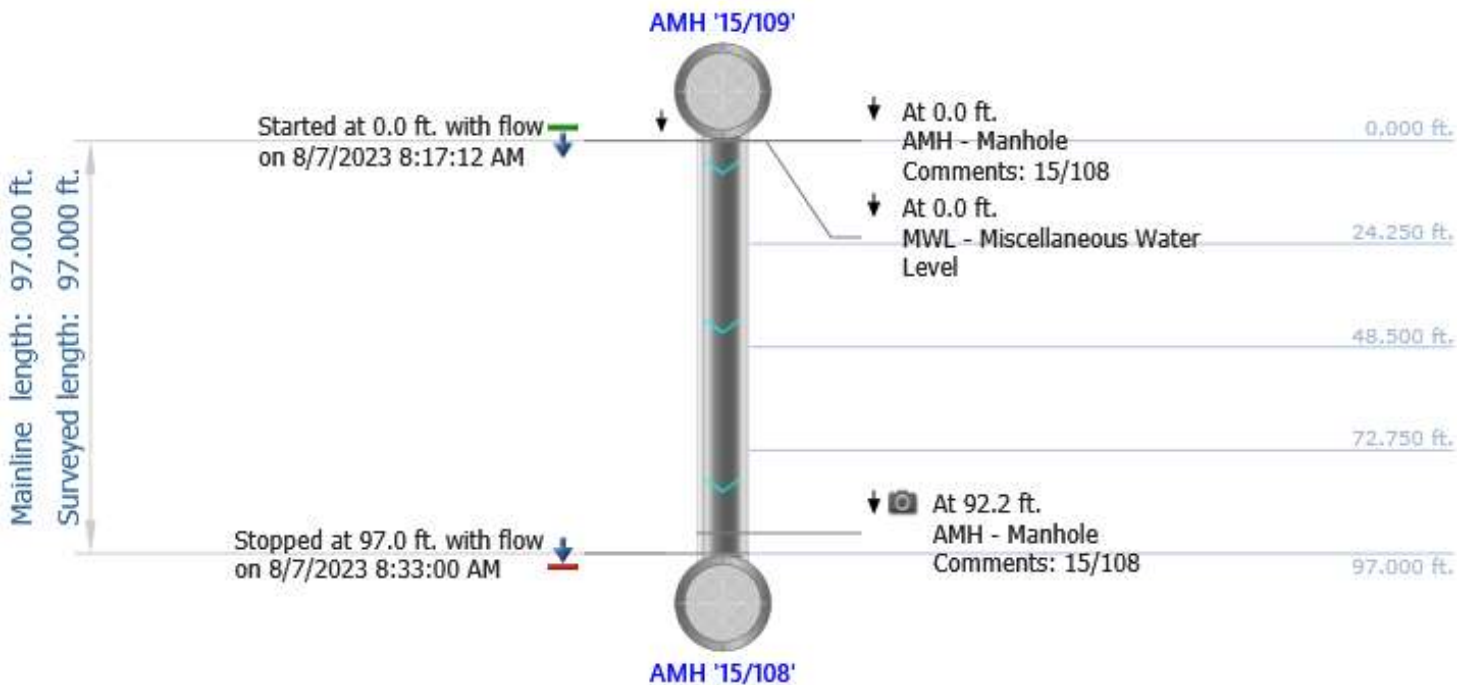


## NWMCC INSPECTION REPORT

Start date/time: 20230807 08:17	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/109-15/108
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/109	Downstream MH No: 15/108	Direction: D	Total length: 97.000 ft.	Length surveyed: 97.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 08:17	Pipe segment ref.: 15/109-15/108
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Photo: 15\_109-15\_108-20230807-082740.JPG

At: 92.2 ft. AMH - Manhole

Joint: No 15/108



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

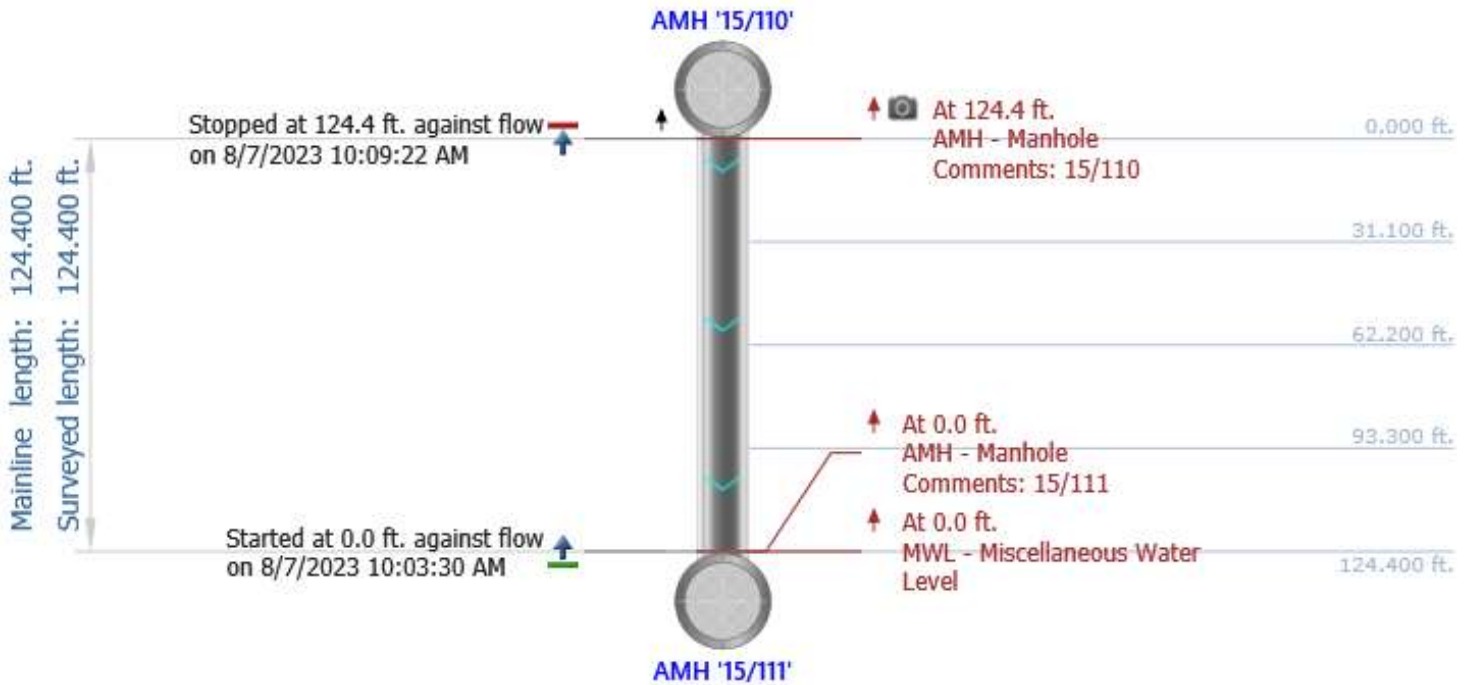


## NWMCC INSPECTION REPORT

Start date/time: 20230807 10:03	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/110-15/111
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/110	Downstream MH No: 15/111	Direction: U	Total length: 124.400 ft.	Length surveyed: 124.400 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 10:03	Pipe segment ref.: 15/110-15/111
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Photo: 15\_110-15\_111-20230807-100900.JPG

At: 124.4 ft. AMH - Manhole

Joint: No 15/110





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

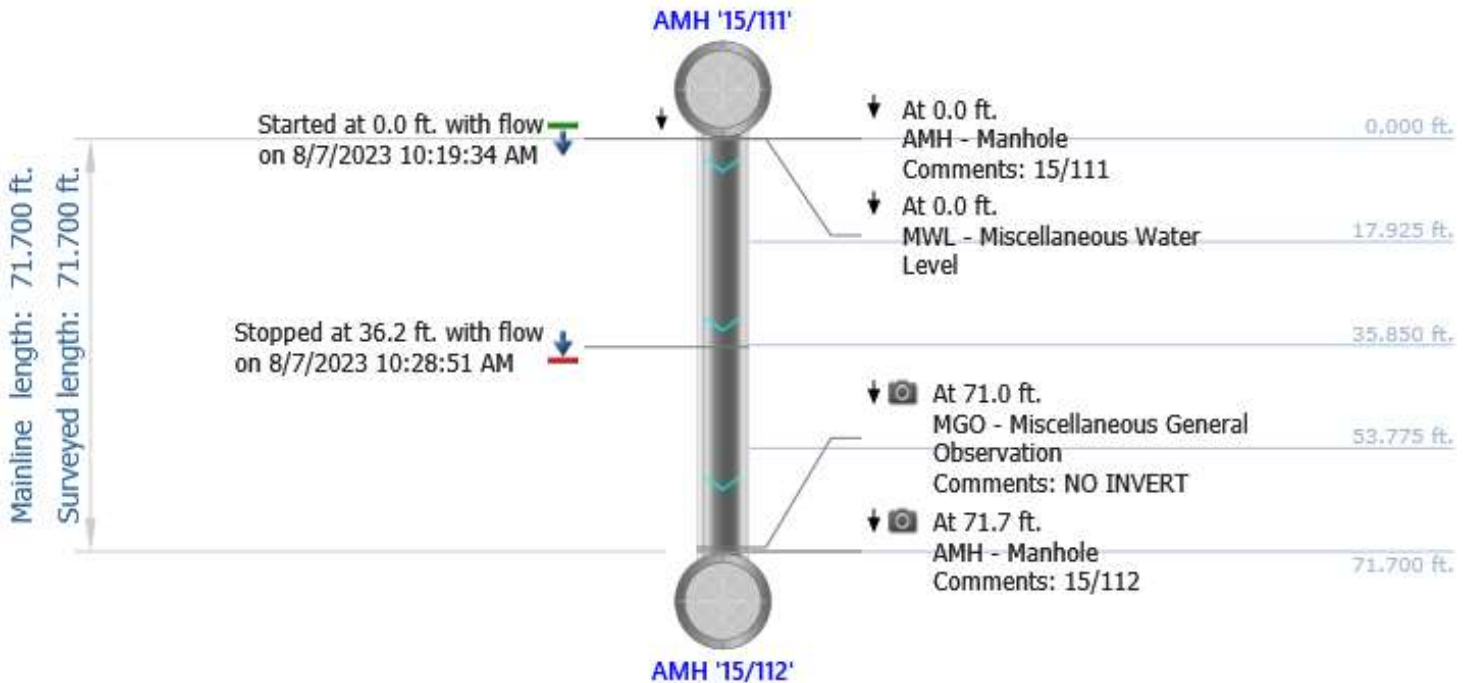


## NWMCC INSPECTION REPORT

Start date/time: 20230807 10:19	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/111-15/112
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/111	Downstream MH No: 15/112	Direction: D	Total length: 71.700 ft.	Length surveyed: 71.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 10:19	Pipe segment ref.: 15/111-15/112
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Photo: 15\_111-15\_112-20230807-102844.JPG  
At: 71 ft. MGO - Miscellaneous General Observation  
Joint: No NO INVERT



Photo: 15\_111-15\_112-20230807-102505.JPG  
At: 71.7 ft. AMH - Manhole  
Joint: No 15/112



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
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<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

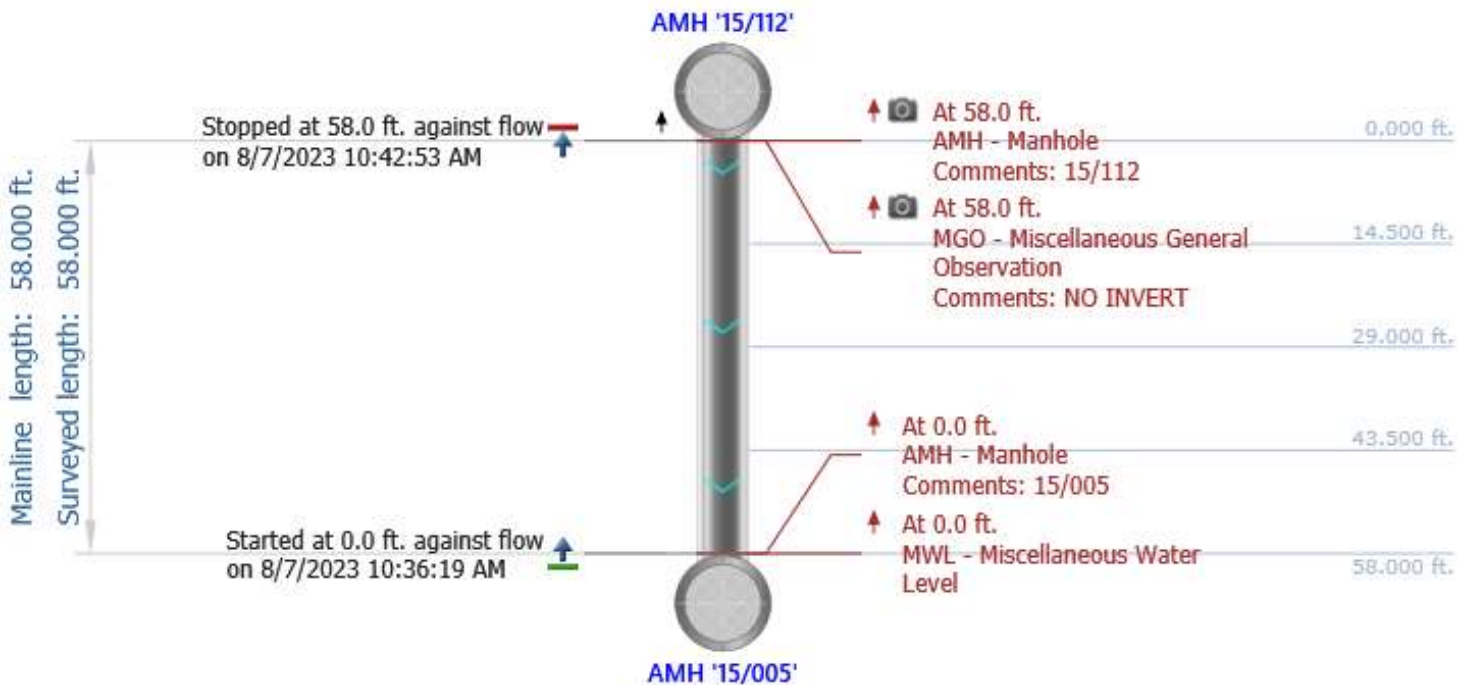


## NWMCC INSPECTION REPORT

Start date/time: 20230807 10:36	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/112-15/005
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Secondary Road	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/112	Downstream MH No: 15/005	Direction: U	Total length: 58.000 ft.	Length surveyed: 58.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							





# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 10:36	Pipe segment ref.: 15/112-15/005
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Photo: 15\_112-15\_005-20230807-104202.JPG  
At: 58 ft. AMH - Manhole  
Joint: No 15/112



Photo: 15\_112-15\_005-20230807-104232.JPG  
At: 58 ft. MGO - Miscellaneous General Observation  
Joint: No NO INVERT



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

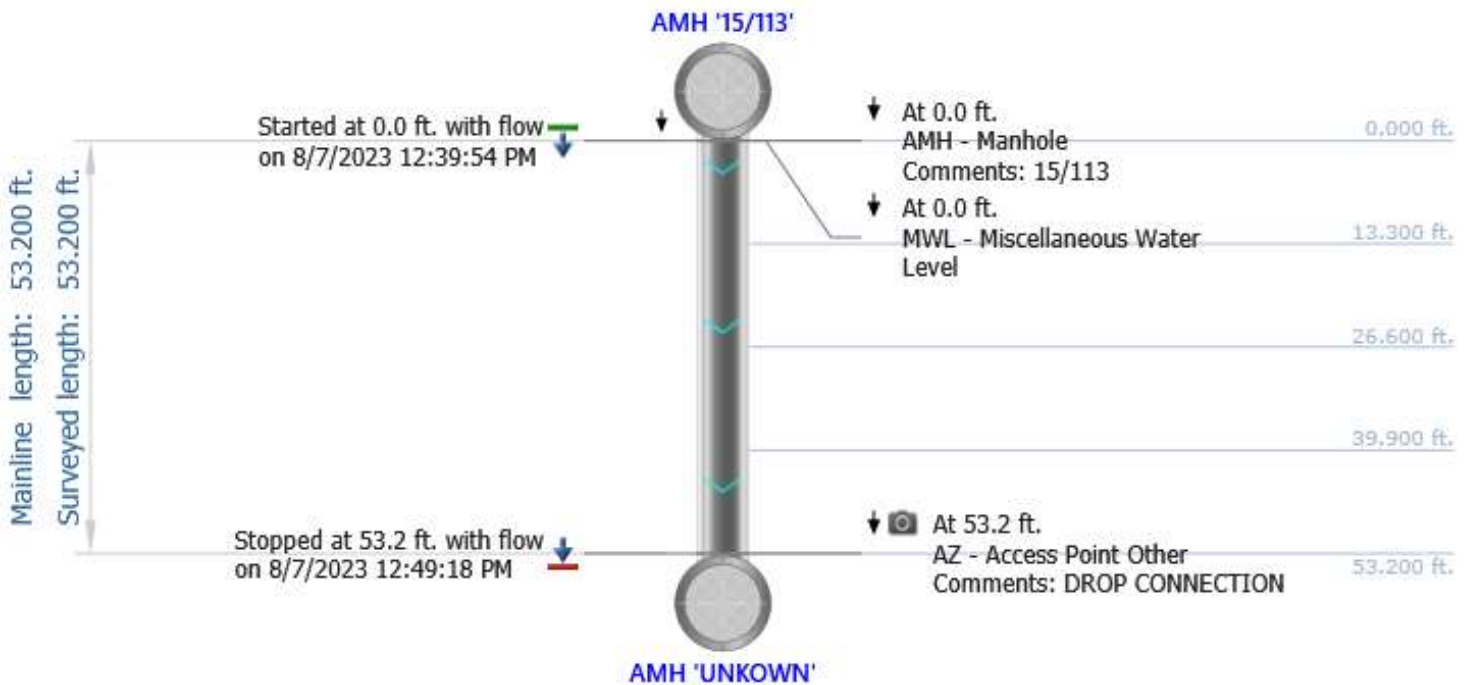


## NWMCC INSPECTION REPORT

Start date/time: 20230807 12:39	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/113-UNKNOWN
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Secondary Road	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/113	Downstream MH No: UNKOWN	Direction: D	Total length: 53.200 ft.	Length surveyed: 53.200 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 6 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 12:39	Pipe segment ref.: 15/113-UNKNOWN
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Photo: 15\_113-UNKOWN-20230807-124708.JPG  
At: 53.2 ft. AZ - Access Point Other  
Joint: No DROP CONNECTION



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



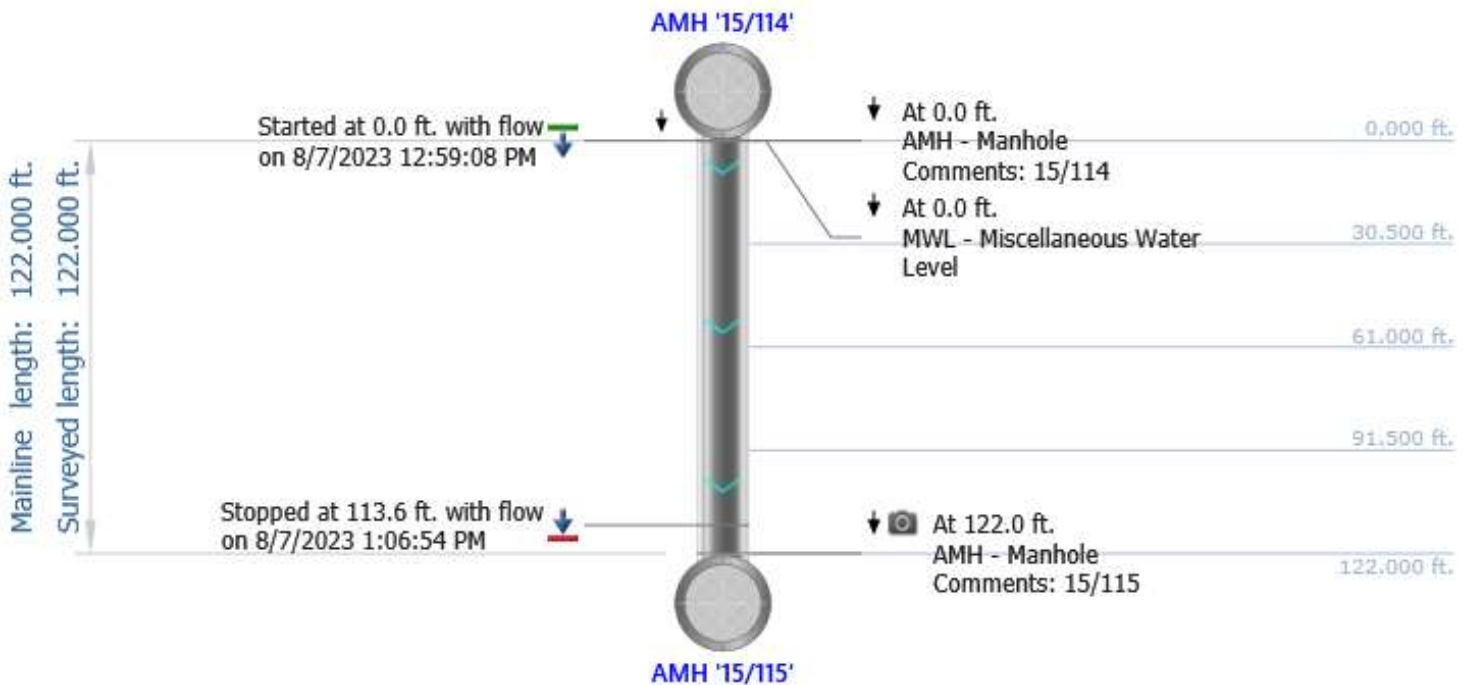


## NWMCC INSPECTION REPORT

Start date/time: 20230807 12:59	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: 15/114-15/115
Owner:	Customer:	Pre-cleaning: No Pre-Cleaning	Date cleaned:	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Sidewalk	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: 15/114	Downstream MH No: 15/115	Direction: D	Total length: 122.000 ft.	Length surveyed: 122.000 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 6 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City:	Street:	Start date/time:	Pipe segment ref.:
WESTWOOD MA	NAHATAN ST	20230807 12:59	15/114-15/115



Distance: 122.0 ft.  
AMH - Manhole  
Clock from:  
Clock to:  
Rating:  
Dimension 1:  
Dimension 2:  
%:  
15/115

Photo: 15\_114-15\_115-20230807-130621.JPG  
At: 122 ft. AMH - Manhole  
Joint: No 15/115



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

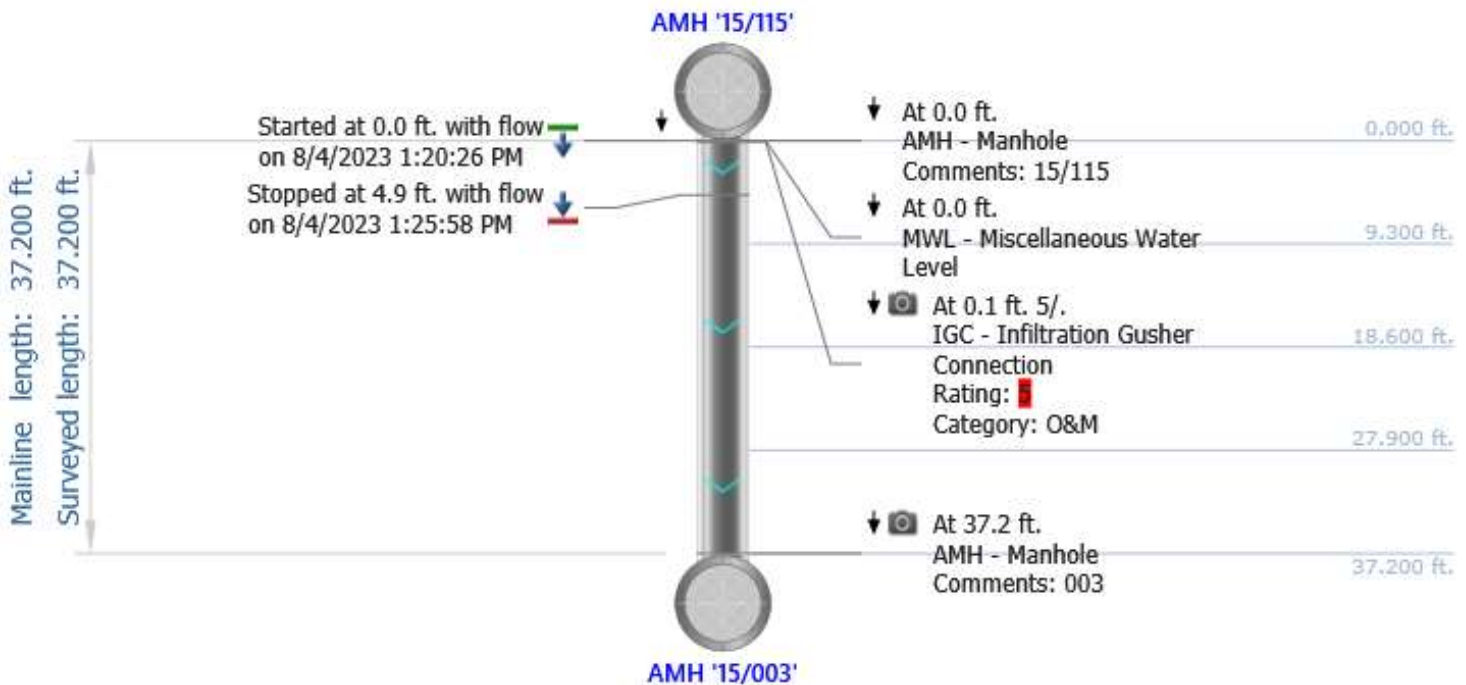


## NWMCC INSPECTION REPORT

Start date/time: 20230804 13:20	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/115 - 15/003
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230804	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: 15/115	Downstream MH No: 15/003	Direction: D	Total length: 37.200 ft.	Length surveyed: 37.200 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	5	5100	5.0	5	5.0	5.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	5							



# NWMCC INSPECTION REPORT

## Inspection Photos

City:

WESTWOOD MA

Street:

NAHATAN ST

Start date/time:

20230804 13:20

Pipe segment ref.:

15/115 - 15/003



Photo: 15\_115-15\_003-20230804-132528.JPG  
At: 0.1 ft. 5/. IGC - Infiltration Gusher Connection  
Joint: No



Photo: 15\_115-15\_003-20230804-132429.JPG  
At: 37.2 ft. AMH - Manhole  
Joint: No 003





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



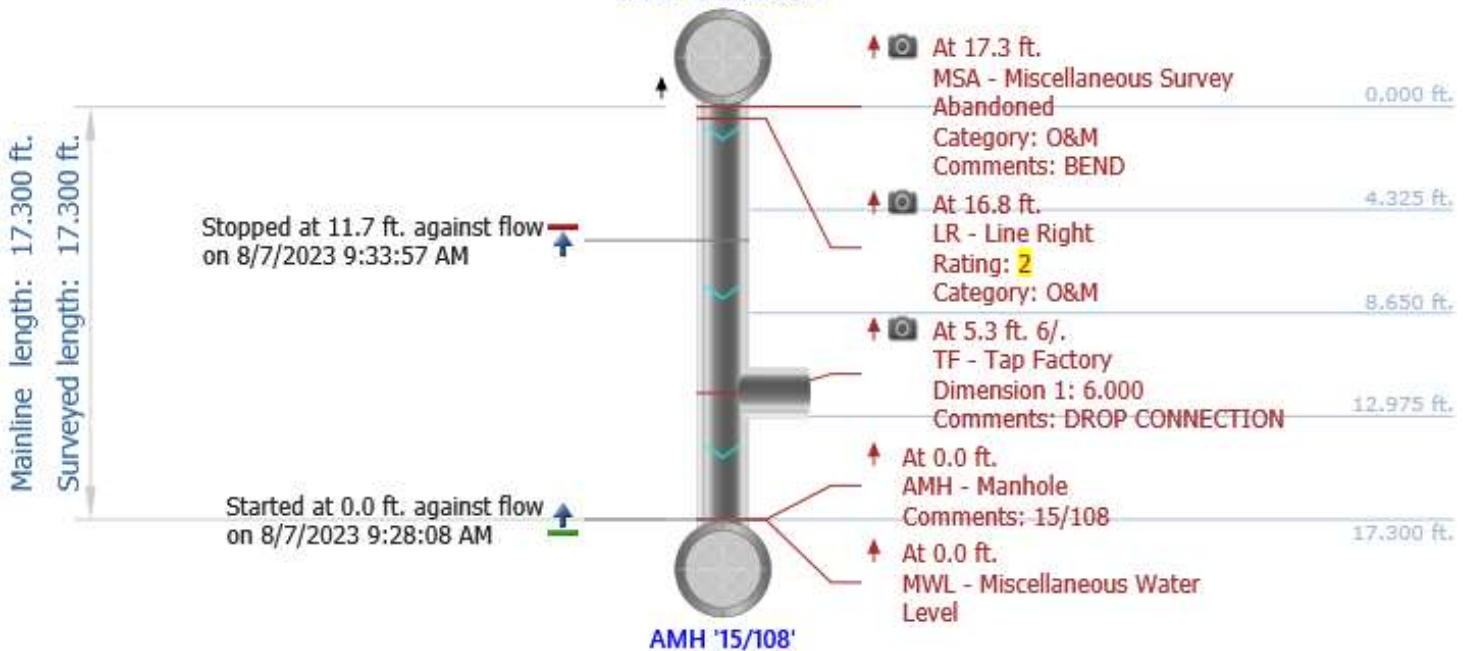
## NWMCC INSPECTION REPORT

Start date/time: 20230807 09:28	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: CLEANOUT
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: CLEANOUT	Downstream MH No: 15/108	Direction: U	Total length: 17.300 ft.	Length surveyed: 17.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 6 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	2	2100	2.0	2	2.0	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

#### ACOP 'CLEANOUT'



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 09:28	Pipe segment ref.: CLEANOUT
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Photo: CLEANOUT-15\_108-20230807-093006.JPG  
At: 5.3 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION



Photo: CLEANOUT-15\_108-20230807-093253.JPG  
At: 16.8 ft. LR - Line Right  
Joint: No 20 %

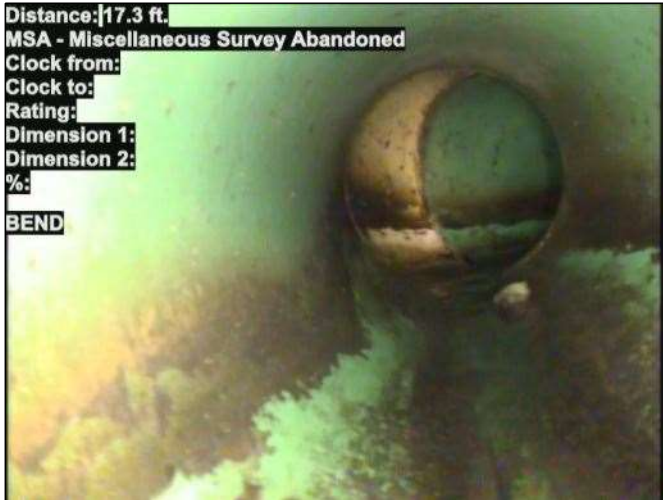


Photo: CLEANOUT-15\_108-20230807-093320.JPG  
At: 17.3 ft. MSA - Miscellaneous Survey Abandoned  
Joint: No BEND



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

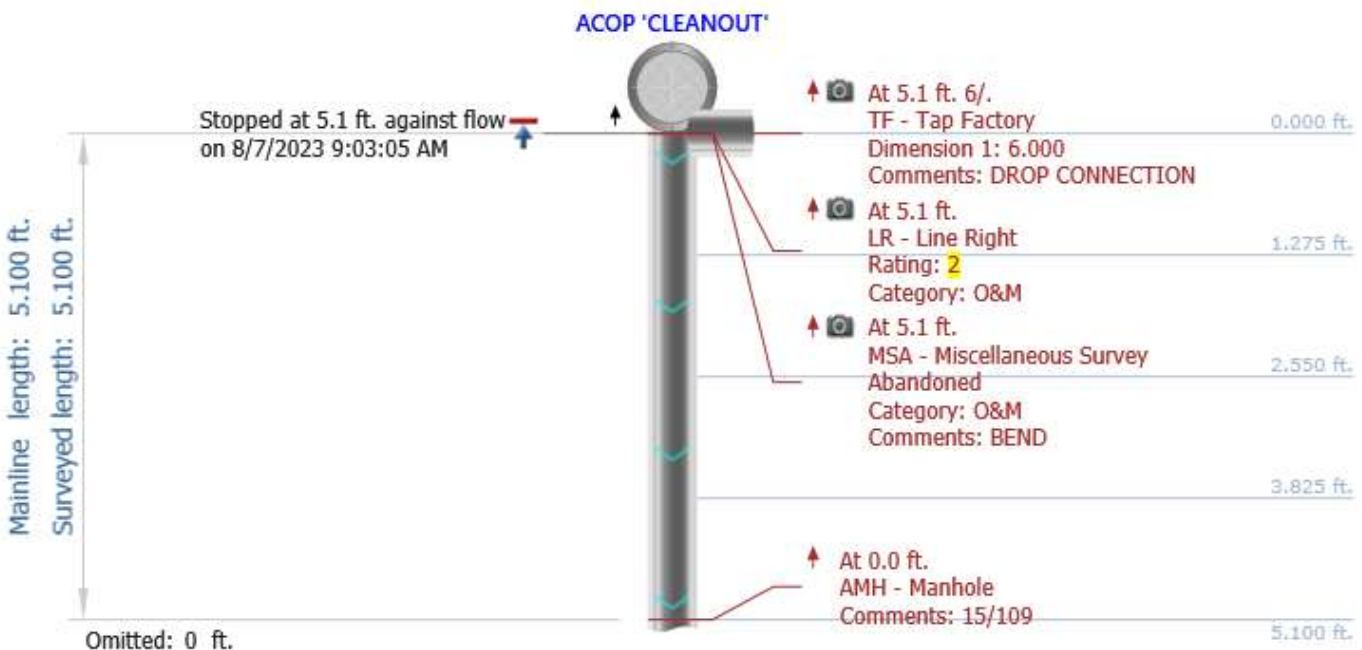


## NWMCC INSPECTION REPORT

Start date/time: 20230807 08:50	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: CLEANOUT-15/109
Owner: National Water Main Cleaning	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: CLEANOUT	Downstream MH No: 15/109	Direction: U	Total length: 5.100 ft.	Length surveyed: 5.100 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 6 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	2	2100	2.0	2	2.0	2.1	
2	0	0				0	2							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							

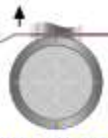




Mainline length: 5.100 ft.  
Surveyed length: 5.100 ft.

Omitted: 5.1 ft.

Started at 0.0 ft. against flow  
on 8/7/2023 8:50:49 AM



AMH '15/109'



At 0.0 ft.  
MWL - Miscellaneous Water  
Level

~~5.100 ft.~~  
~~5.100 ft.~~

# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 08:50	Pipe segment ref.: CLEANOUT-15/109
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Photo: CLEANOUT-15\_109-20230807-085936.JPG  
At: 5.1 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION

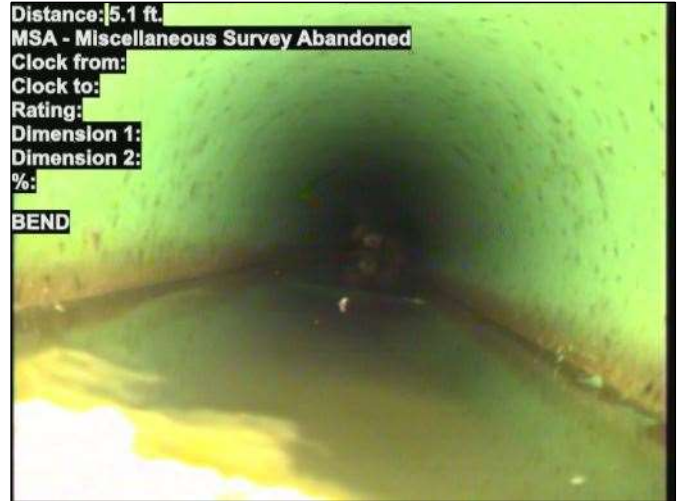


Photo: CLEANOUT-15\_109-20230807-090105.JPG  
At: 5.1 ft. MSA - Miscellaneous Survey Abandoned  
Joint: No BEND



Photo: CLEANOUT-15\_109-20230807-090026.JPG  
At: 5.1 ft. LR - Line Right  
Joint: No 20 %



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

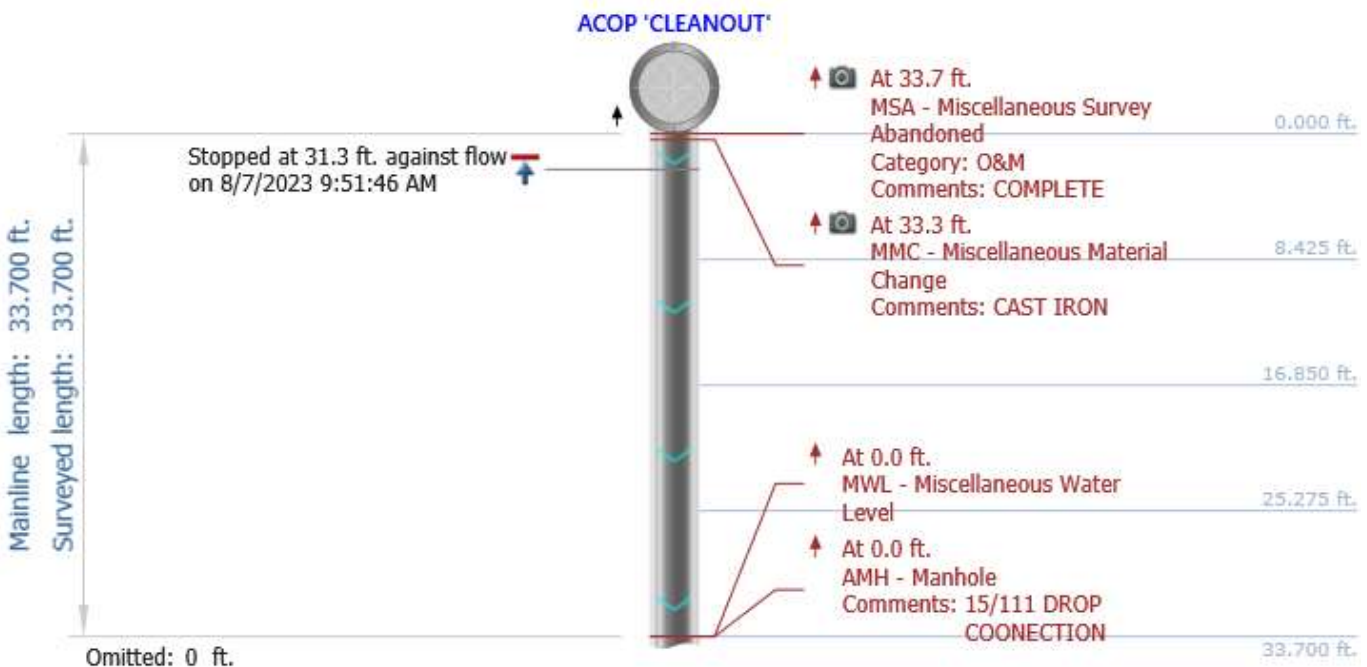


## NWMCC INSPECTION REPORT

Start date/time: 20230807 09:43	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: CLEANOUT-15/111
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Yard	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: CLEANOUT	Downstream MH No: 15/111	Direction: U	Total length: 33.700 ft.	Length surveyed: 33.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 6 in.	Material: Polyvinyl Chloride	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



Mainline length: 33,700 ft.  
Surveyed length: 33,700 ft.

Omitted: 33.7 ft.

Started at 0.0 ft. against flow  
on 8/7/2023 9:43:19 AM



AMH '15/111'



At 0.0 ft. 6/.  
TF - Tap Factory  
Dimension 1: 6.000  
Comments: DROP CONNECTION

33,700 ft.  
33,700 ft.



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 09:43	Pipe segment ref.: CLEANOUT-15/111
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Photo: CLEANOUT-15\_111-20230807-094521.JPG  
At: 0 ft. 6/. TF - Tap Factory  
Joint: No DROP CONNECTION



Photo: CLEANOUT-15\_111-20230807-094759.JPG  
At: 33.3 ft. MMC - Miscellaneous Material Change  
Joint: No CAST IRON

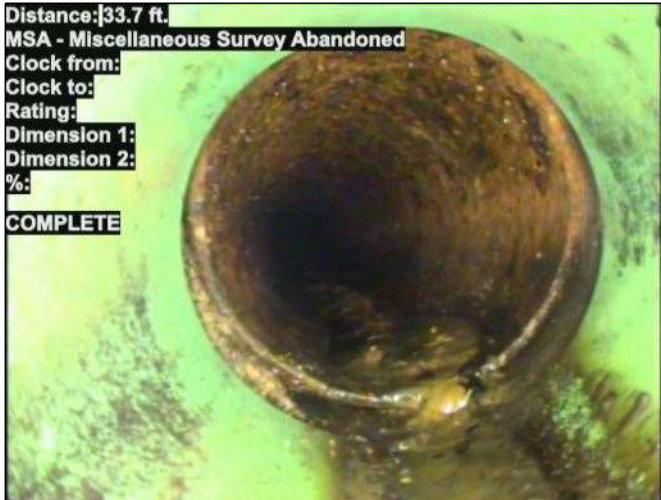


Photo: CLEANOUT-15\_111-20230807-095110.JPG  
At: 33.7 ft. MSA - Miscellaneous Survey Abandoned  
Joint: No COMPLETE



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

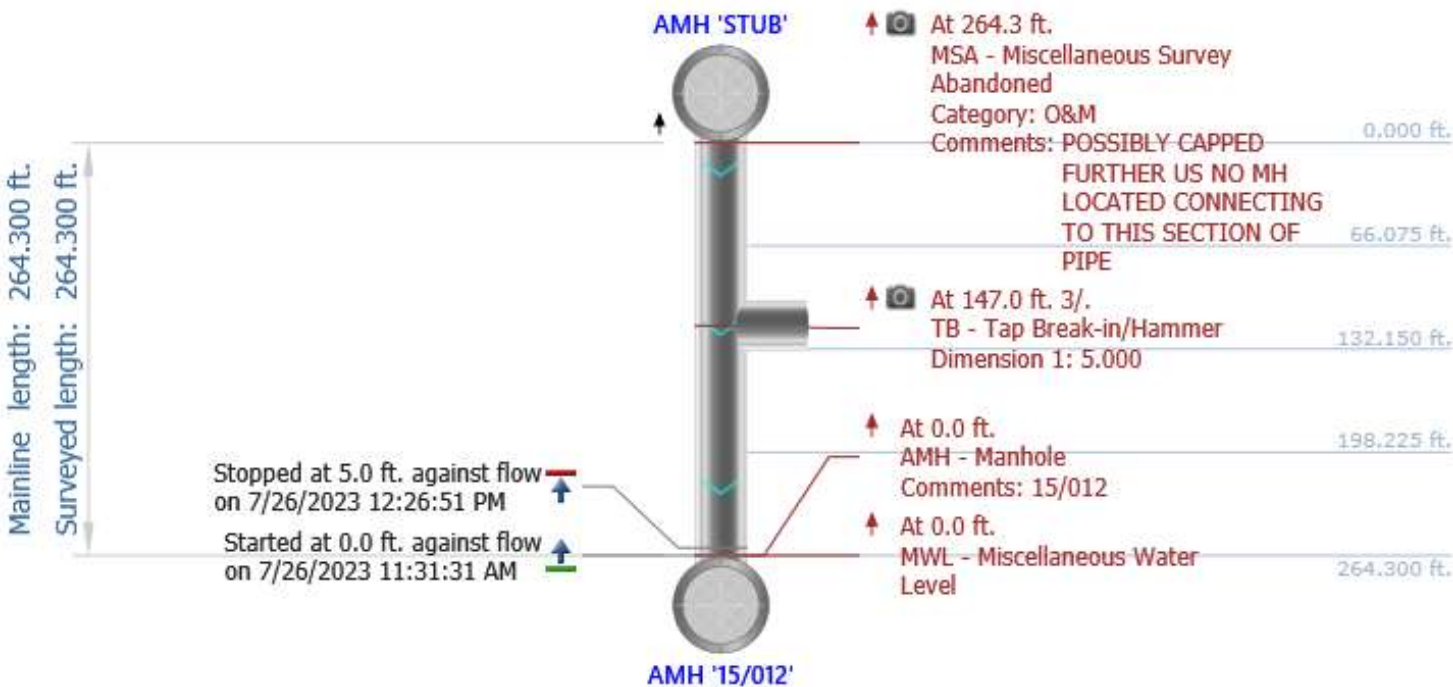


## NWMCC INSPECTION REPORT

Start date/time: 20230726 11:31	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/012 - STUB
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: STUB	Downstream MH No: 15/012	Direction: U	Total length: 264.300 ft.	Length surveyed: 264.300 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230726 11:31	Pipe segment ref.: 15/012 - STUB
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Photo: STUB-15\_012-20230726-113650.JPG  
At: 147 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No

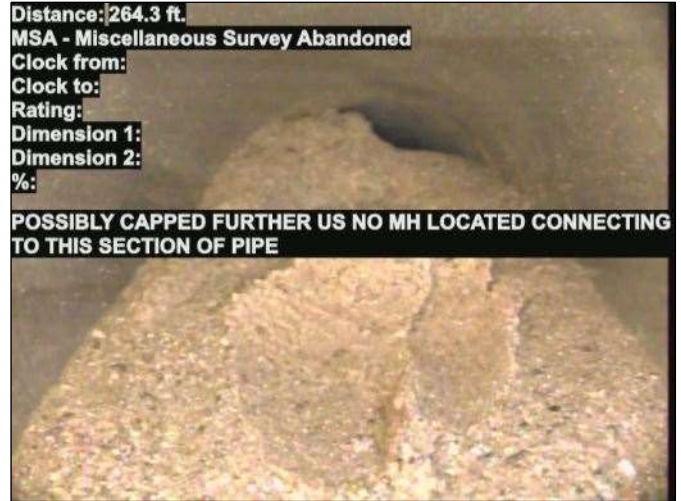


Photo: STUB-15\_012-20230726-122102.JPG  
At: 264.3 ft. MSA - Miscellaneous Survey Abandoned  
Joint: No POSSIBLY CAPPED FURTHER US NO MH LOCATED CONNECTING TO THIS SECTION OF PIPE



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>



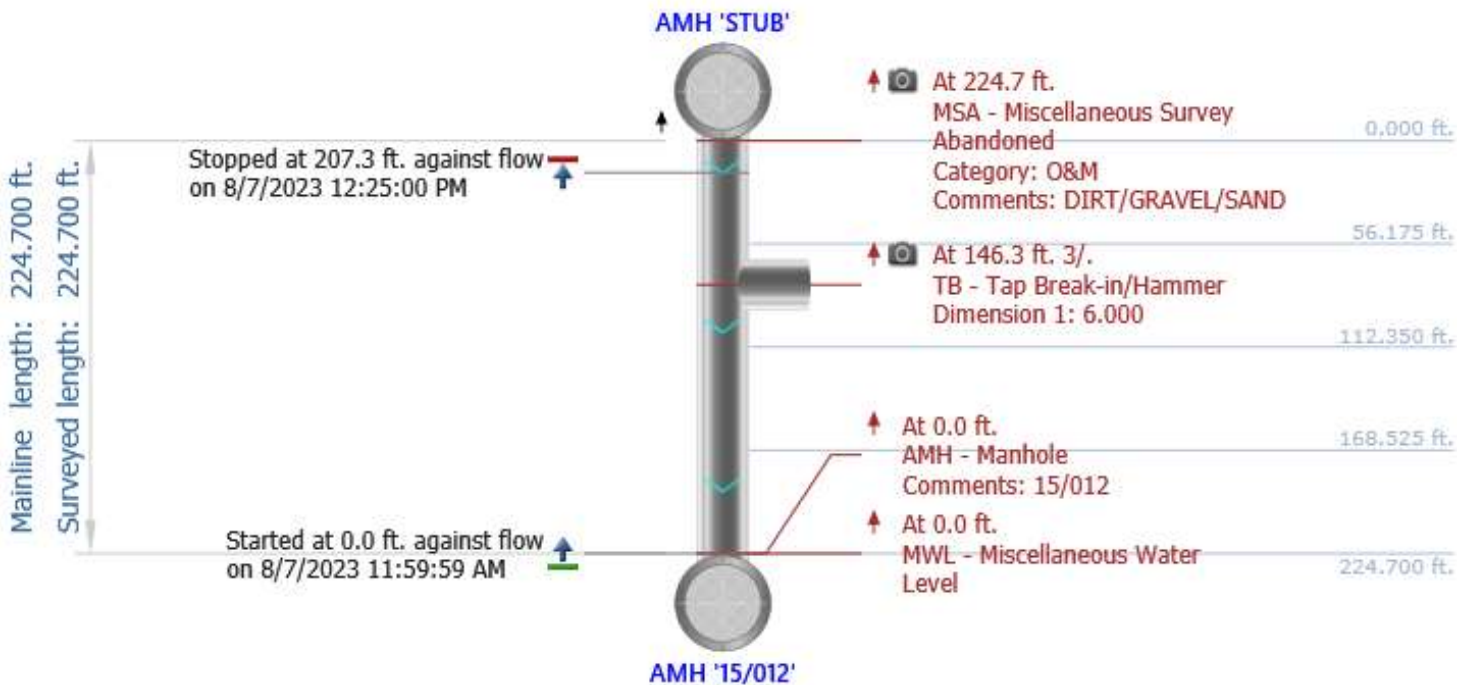


## NWMCC INSPECTION REPORT

Start date/time: 20230807 11:59	Weather: Dry - No precipitation during survey	Surveyed by: L.Pereira	Certificate number: U-315-06023936	Pipe segment ref.: STUB-15/012
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230807	Project name: ENV017-13
City: WESTWOOD MA	Street: NAHATAN ST	Location code: Secondary Road	Pipe use: Sanitary Sewage Pipe	Drainage area: Not Controlled
Upstream MH No: STUB	Downstream MH No: 15/012	Direction: U	Total length: 224.700 ft.	Length surveyed: 224.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: NAHATAN ST	Start date/time: 20230807 11:59	Pipe segment ref.: STUB-15/012
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Photo: STUB-15\_012-20230807-120402.JPG  
At: 146.3 ft. 3/. TB - Tap Break-in/Hammer  
Joint: No



Photo: STUB-15\_012-20230807-122406.JPG  
At: 224.7 ft. MSA - Miscellaneous Survey Abandoned  
Joint: No DIRT/GRAVEL/SAND



## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

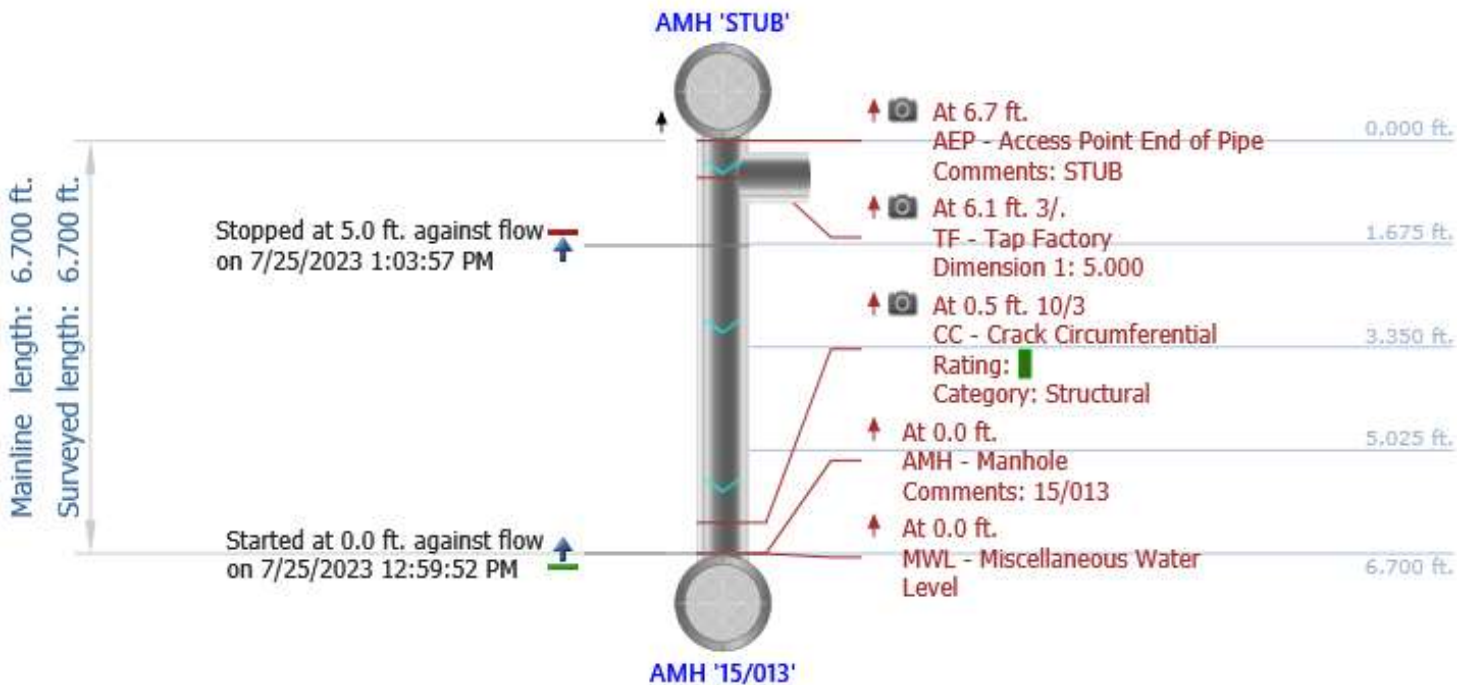


## NWMCC INSPECTION REPORT

Start date/time: 20230725 12:59	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/013 - STUB
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230725	Project name: ENV017-13
City: WESTWOOD MA	Street: BAKER ST	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: STUB	Downstream MH No: 15/013	Direction: U	Total length: 6.700 ft.	Length surveyed: 6.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	1	1	1100	1.0	0	0	0	0000	0.0	1	1.0	1.1	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: BAKER ST	Start date/time: 20230725 12:59	Pipe segment ref.: 15/013 - STUB
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Photo: STUB-15\_013-20230725-130325.JPG  
At: 0.5 ft. 10/3 CC - Crack Circumferential  
Joint: Yes



Photo: STUB-15\_013-20230725-130206.JPG  
At: 6.1 ft. 3/. TF - Tap Factory  
Joint: No



Photo: STUB-15\_013-20230725-130223.JPG  
At: 6.7 ft. AEP - Access Point End of Pipe  
Joint: No STUB





## NWMCC INSPECTION REPORT

### PACP Rating Description

<p><u>1:</u>    <b>Excellent Condition</b></p> <p>Minor Defects - Failure unlikely in the foreseeable future</p>
<p><u>2:</u>    <b>Good Condition</b></p> <p>Defects that have not begun to deteriorate - Pipe unlikely to fail for at least 20 years.</p>
<p><u>3:</u>    <b>Fair Condition</b></p> <p>Moderate defects that will continue to deteriorate - Pipe may fail in 10-20 years.</p>
<p><u>4:</u>    <b>Poor Condition</b></p> <p>Severe Defects that will become Grade 5 defects within the foreseeable future - Pipe will probably fail in 5-10 years.</p>
<p><u>5:</u>    <b>Immediate Attention</b></p> <p>Defects require immediate attention - Pipe has failed or will likely fail within the next 5 years or sooner.</p>

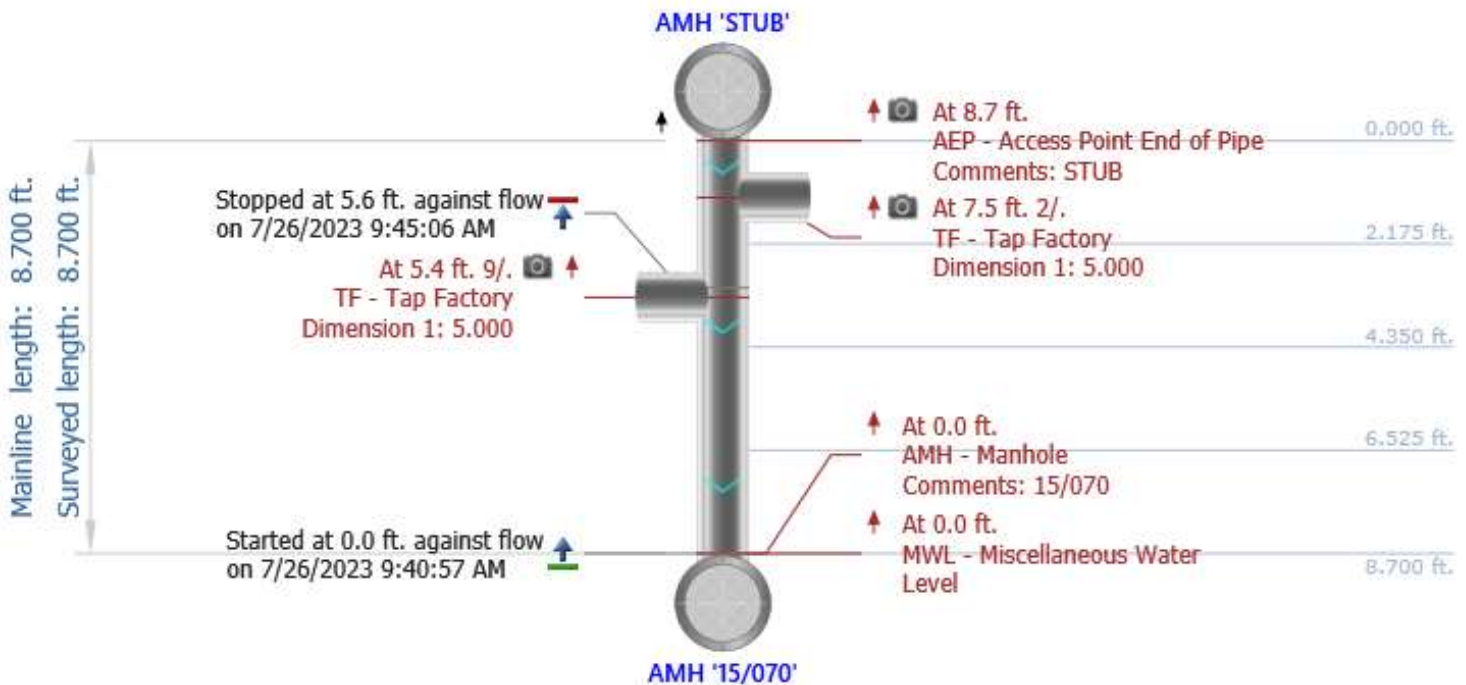


## NWMCC INSPECTION REPORT

Start date/time: 20230726 09:40	Weather: Dry - No precipitation during survey	Surveyed by: C.Arruda	Certificate number: U-910-11364	Pipe segment ref.: 15/070 - STUB
Owner:	Customer:	Pre-cleaning: Light Cleaning	Date cleaned: 20230726	Project name: ENV017-13
City: WESTWOOD MA	Street: WAGON RD	Location code:	Pipe use: Sanitary Sewage Pipe	Drainage area: Flow control:
Upstream MH No: STUB	Downstream MH No: 15/070	Direction: U	Total length: 8.700 ft.	Length surveyed: 8.700 ft.
Purpose: Maintenance Related	Pipe joint length:	Height: 8 in.	Material: Asbestos Cement	LateralsCounter: Additional info:

### Pipe Ratings

Grade	Structural:					O&M:					Overall:			
	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Defects	Segment Grade	Pipe Rating	Quick Rating	Pipe Rating Index	Pipe Rating	Pipe Rating Index	LoF	Risk
1	0	0	0	0000	0.0	0	0	0	0000	0.0	0	0.0	1.0	
2	0	0				0	0							
3	0	0				0	0							
4	0	0				0	0							
5	0	0				0	0							



# NWMCC INSPECTION REPORT

## Inspection Photos

City: WESTWOOD MA	Street: WAGON RD	Start date/time: 20230726 09:40	Pipe segment ref.: 15/070 - STUB
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Photo: STUB-15\_070-20230726-094356.JPG  
At: 5.4 ft. 9/. TF - Tap Factory  
Joint: No



Photo: STUB-15\_070-20230726-094417.JPG  
At: 7.5 ft. 2/. TF - Tap Factory  
Joint: No



Photo: STUB-15\_070-20230726-094435.JPG  
At: 8.7 ft. AEP - Access Point End of Pipe  
Joint: No STUB

