APPENDIX A TELEVISION INSPECTION REPORTS AND VIDEOS

To download inspection videos:

https://sharefile.wseinc.com/link/HI3U6mDL6utLise5l9PSkT

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing

Pipe Segment Refere		Ci	ity	Street	Mate	erial	Location C	Sewer Use
11	14	Worces	ter- MA	Southbridge Street	Brick		Light High	Combined
Upstrea	am MH	Total L	_ength	Year Laid	Sha	ape	Location	Details
215	539	2	8		0\	/al		
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
215	540	2	8		42	32		
SPR	N/A	MPR	N/A	PO Number		Customer		
SPRI	N/A	MPRI	N/A	-		Weston and Sampson		son
SPRI	IN/A	IVIFKI	IN/A	Work Order			Purpose	
QSR	N/A	QMR	N/A			M	laintenance Rela	ted
OF	PR	Survey	ed By	Direction	Da	ate	Media	alabel
N/	' A	J_Am	brose	Upstream	20160504		5-4-16	
OF	PRI	Certificate Number		Pre-Cleaning	Time		Weather	
N/	N/A		-12217	Heavy Cleaning	eavy Cleaning 11:		Saturated	
	Date Cleaned					End Time		nal Info
(2016	0504		11:	:28		

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		One de
			1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	21540								
0.0 ft.	Water Level				40				
28.0 ft.	Access Point Manhole				0				
Remarks:	21539								



City	Street	Material		Location C	Sewer Use	
Worcester- MA	Southbridge Street	Brick		Light High	Combined	
Total Length	Year Laid	Shape		Shape Location D		Details
28		Oval				
Length surveyed	Year Renewed	Height	Width	Pipe Joint		
28		42	32			
	Worcester- MA Total Length 28 Length surveyed	Worcester- MA Southbridge Street Total Length Year Laid 28 Length surveyed Year Renewed	Worcester- MA Southbridge Street Bri Total Length Year Laid Sha 28 Ov Length surveyed Year Renewed Height	Worcester- MA Southbridge Street Brick Total Length Year Laid Shape 28 Oval Length surveyed Year Renewed Height Width	Worcester- MA Southbridge Street Brick Light High Total Length Year Laid Shape Location 28 Oval Length surveyed Year Renewed Height Width Pipe Joint	

SPR	N/A	MPR	N/A	PO Number		Number Customer			
SPRI	N/A	MPRI	N/A			Wes	eston and Sampson		
SPRI	N/A	IVIPRI	N/A	Work Order			Purpose		
QSR	N/A	QMR	N/A		Mai		intenance Related		
OF	PR	Surve	yed By	Direction	Date		Date Media label		
N/	N/A		N/A J_Ambrose		Upstream	20160504		5-4-16	
OF	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather		
N/A		U-311	-12217	Heavy Cleaning	11:28		Saturated		
	Date Cleaned					Time	Additio	nal Info	
		2016	0504		11:	:28			



Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919 401-943-5302



Image Report 4/Page

$\overline{}$	Pipe Segment Refere	City	Street	Material		Material		Location C	Sewer Use
	114	Worcester- MA	Southbridge Street	Brick		Light High	Combined		
	Upstream MH	Total Length	Year Laid	Shape		Location Details			
	21539	28		Oval					
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint			
	21540	20		42	22				



Distance: 0.0 ft. Grade:

Condition: Access Point Manhole

Remarks: 21540



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 28.0 ft. Grade: 0 Condition:

Access Point Manhole

Remarks: 21539

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
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Notes:	

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing

Pipe Segment Refere		C	ity	Street	Mat	erial	Location C	Sewer Use	
11	13	Worces	ster- MA	Sargent Street	Br	ick	Light High	Combined	
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location	n Details	
215	542	1	77		0	/al			
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint		
215	544	177			42	32			
SPR	N/A	MPR	20	PO Number		Customer			
CDDI	NI/A	MDDI			Work Order		Veston and Sampson Purpose		
SPRI	N/A	MPRI	2	Work Order					
QSR	N/A	QMR	2A00			M	aintenance Rela	ited	
IO	PR .	Surve	yed By	Direction	on Da		Media	a label	
2	0	J_Am	brose	Downstream	20160504		5-4	-16	
OF	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather		
	2	U-311-12217		Heavy Cleaning	11:05		Saturated		
		Date C	Cleaned	End Time		Additional Info			
					11:	:06	line is par	shel plu	

Distance	Condition	Cont Diet		Values		Joint	Clock P	osition	Crada
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	21542								
0.0 ft.	Water Level				45				
10.5 ft.	Tap Break-In Capped		6		0		2		2
15.6 ft.	Tap Break-In Capped		6		0		9		2
45.9 ft.	Tap Break-In Capped		6		0		9		2
50.8 ft.	Tap Break-In Active		6		0		2		
77.6 ft.	Tap Break-In Capped		6		0		3		2
78.5 ft.	Tap Break-In Capped		6		0		9		2
110.6 ft.	Tap Break-In Capped		6		0		9		2
111.1 ft.	Tap Break-In Capped		6		0		3		2
135.7 ft.	Tap Break-In Active		6		0		2		
145.0 ft.	Tap Break-In Capped		6		0		9		2
145.0 ft.	Tap Break-In Capped		6		0		2		2
176.0 ft.	Tap Break-In Capped		6		0		2		2
177.0 ft.	Access Point Manhole				0				
Remarks:	21544	•							

Saturated

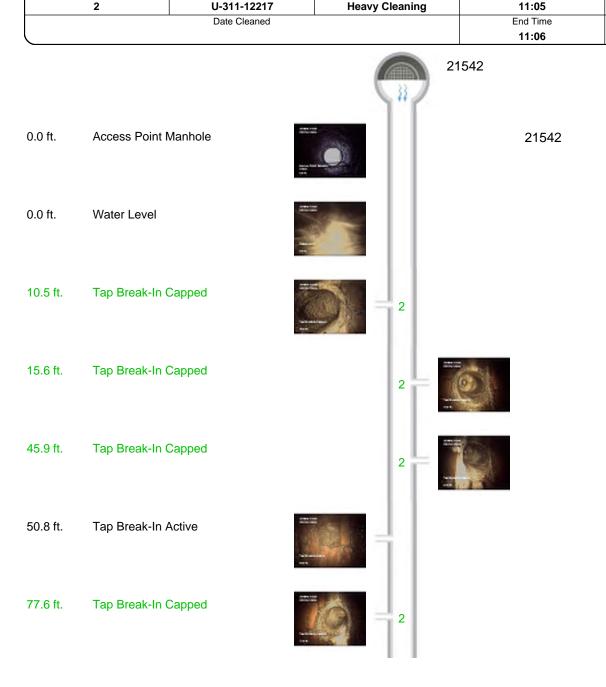
Additional Info

line is parshel plu...



Defect Listing Plot with Images

Pipe Segme	ent Refere	C	ity	Street	Street Materi		Location C	Sewer Use
11	13	Worces	ster- MA	Sargent Street	Brick		Light High	Combined
Upstrea	am MH	Total	Length	Year Laid	Shape		Location	Details
215	542	1	77		O ₁	<i>v</i> al		
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint	
215	544	1	77		42	32		
SPR	N/A	MPR	20	PO Number			Customer	
SPRI	N/A	MPRI	2	_		We	ston and Samp	son
SPRI	IN/A	IVIFKI		Work Order			Purpose	
QSR	N/A	QMR	2A00			Ma	intenance Rela	ted
OF	PR	Surve	yed By	Direction	Da	Date Media label		alabel
2	0	J_Am	nbrose	Downstream	20160504 5-4-16		-16	
OF	PRI	Certificat	e Number	Pre-Cleaning	Time Weather			



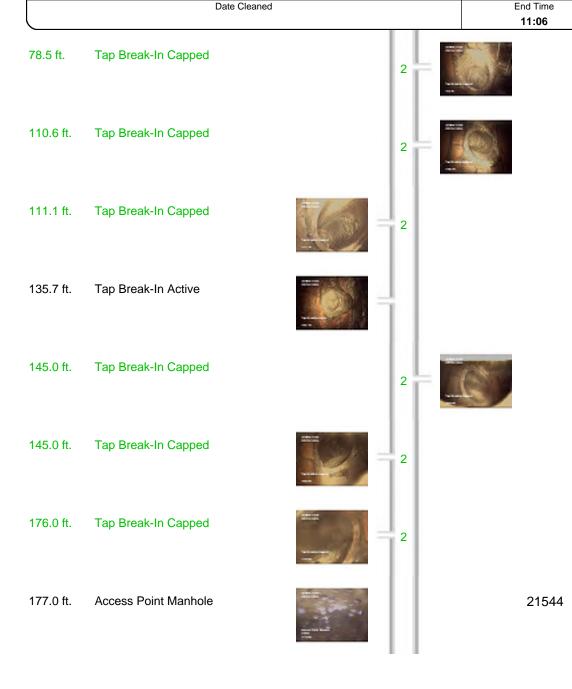
Additional Info

line is parshel plu...



Defect Listing Plot with Images

Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
1	13	Worces	ster- MA	Sargent Street	Sargent Street Brick		Light High	Combined
Upstre	am MH	Total Length		Year Laid	Sha	ape	Location	Details
21	542	17	77		0\	<i>r</i> al		
DS M	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
21	544	17	77		42	32		
SPR	N/A	MPR	20	PO Number			Customer	
SPRI	N/A	MPRI	2			W	eston and Samp	son
SFRI	IN/A	IVIFKI		Work Order			Purpose	
QSR	N/A	QMR	2A00			М	aintenance Rela	ited
Ol	PR	Surve	yed By	Direction	irection Date Media label		alabel	
2	20	J_Am	brose	Downstream 20160504 5-4-16		-16		
OF	PRI	Certificat	e Number	Pre-Cleaning Time		ne	Weather	
;	2	U-311	-12217	Heavy Cleaning	11:05 Saturated			





401-943-5302

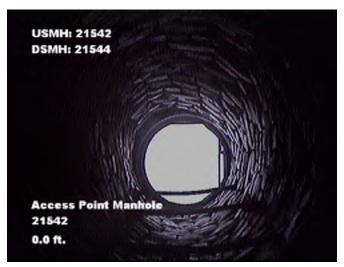
Pipe Segme	Segment Refere City Street Material		Location C	Sewer Use				
11	13	Worces	ster- MA	Sargent Street	Br	Brick		Combined
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location Details	
215	542	1	77		0/	/al		
DS Ma	anhole	Length	surveyed	Year Renewed	Height Width Pipe Jo		Pipe Joint	
215	544	1	77		42	32		
SPR	N/A	MPR	20	PO Number			Customer	
SPRI	N/A	MPRI	2			W	eston and Samp	son
SPRI	N/A	IVIPRI		Work Order			Purpose	
QSR	N/A	QMR	2A00			М	aintenance Rela	ted
OI	PR .	Surve	yed By	Direction	Da	ate	Media	alabel
2	0	J_Am	nbrose	Downstream	2016	0504	5-4	-16
OF	PRI	Certificat	te Number	Pre-Cleaning	Time Weathe		Weather	
2	2	U-311	-12217	Heavy Cleaning	11:05 Saturated			
		Date 0	Cleaned		End	Time	Additio	nal Info
l					111	:06	line is par	shel plu



21544



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
113	Worcester- MA	Sargent Street	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
21542	177		0,	<i>v</i> al		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
21544	177		42	32		



Distance: 0.0 ft. Grade:

Condition: Access Point Manhole

Remarks: 21542



Distance: 0.0 ft. Grade:

Condition: Water Level

Remarks: N/A



Distance: 10.5 ft. Grade: Condition:

Tap Break-In Capped

Remarks: N/A



Distance: 15.6 ft. Grade:

Condition: Tap Break-In Capped

Remarks: N/A



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
113	Worcester- MA	Sargent Street	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sh	ape	Location	Details
21542	177		0,	val		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
21544	177		42	32		



Distance: 45.9 ft. Grade:

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 50.8 ft. Grade:

Condition: Tap Break-In Active

Remarks: N/A



Distance: 77.6 ft. Grade: Condition:

Tap Break-In Capped

Remarks: N/A



Distance: 78.5 ft. Grade:

Condition: Tap Break-In Capped

Remarks: N/A



401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
113	Worcester- MA	Sargent Street	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
21542	177		0\	/al		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
21544	177		42	32		ر ا



Distance: 110.6 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 111.1 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 135.7 ft. Grade: 0

Condition: Tap Break-In Active

Remarks: N/A



Distance: 145.0 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919 401-943-5302



Image Report 4/Page

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
113	Worcester- MA	Sargent Street	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
21542	177		Oval			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
21544	177		42	32		,



Distance: 145.0 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 176.0 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 177.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 21544

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
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Mobile:	401-265-3221
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Notes:	

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



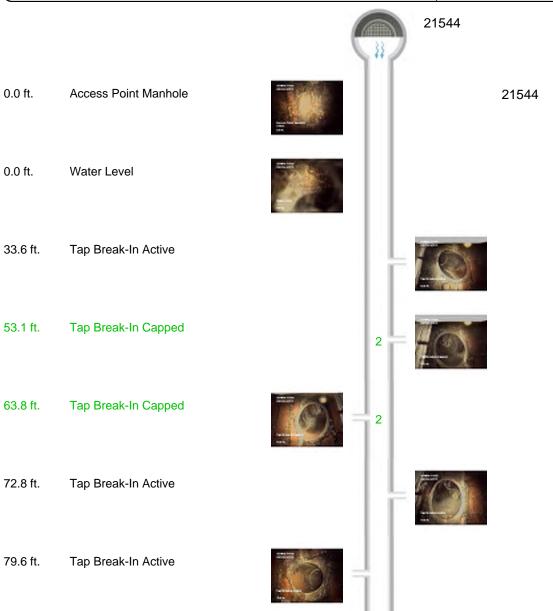
Defect Listing

Pipe Segme	ent Refere	C	City	Street	Mate	erial	Location C	Sewer Use
19)4	Worces	ster- MA	Sargent Street	Bri	ick	Light High	Combined
Upstrea	am MH	Total	Length	Year Laid	Sha	ape	Location Details	
215	544	1	80		Oval			
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint	
222	279	1	80		42	32		
SPR	N/A	MPR	11	PO Number			Customer	
CDDI	NI/A	MPRI	4.0			W	eston and Samp	son
SPRI	N/A	MPRI	1.8	Work Order			Purpose	
QSR	N/A	QMR	2511			М	aintenance Related	
OF	PR	Surve	yed By	Direction	Da	ate	Media	alabel
1	1	J_Am	nbrose	Downstream	2016	0504	5-4	-16
OF	PRI	Certificat	te Number	Pre-Cleaning	Tir	ne	Weather	
1.	8	U-311	-12217	Heavy Cleaning	12:	:47	Saturated	
		Date 0	Cleaned		End .	Time	Additio	nal Info
		2016	60504		13:	:20	line is par	shel plu

Distance	Condition	Comt Diat		Values		laint	Clock Po	osition	Onede
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	21544								•
0.0 ft.	Water Level				50				
33.6 ft.	Tap Break-In Active		6		0		9		
53.1 ft.	Tap Break-In Capped		6		0		9		2
63.8 ft.	Tap Break-In Capped		6		0		3		2
72.8 ft.	Tap Break-In Active		6		0		9		
79.6 ft.	Tap Break-In Active		6		0		3		
108.3 ft.	Tap Break-In Active		6		0		9		
133.2 ft.	Tap Break-In Capped		6		0		3		2
136.7 ft.	Tap Break-In Capped		6		0		9		2
165.1 ft.	Obstacle Built Into Structure				5		9	3	2
Remarks:	steel plate through line								•
172.2 ft.	Tap Break-In Active		6		0		8		
175.0 ft.	Alignment Right				70				1
175.0 ft.	General Observation				0				
Remarks:	zoomed into mh- camera cannot make bend	t							•
180.0 ft.	Access Point Manhole				0				
Remarks:	22279			•	•				•

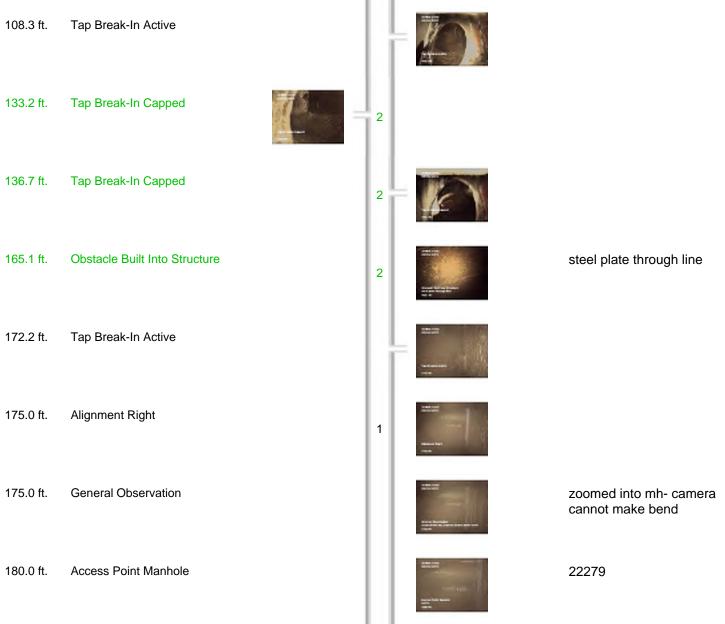


Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
19	94	Worces	ster- MA	Sargent Street	Bri	ick	Light High	Combined
Upstrea	am MH	Total I	Length	Year Laid	Sha	аре	Location	n Details
215	544	18	80		0\	/al		
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
222	279	18	80		42	32		
SPR	N/A	MPR	11	PO Number			Customer	
SPRI	N/A	MPRI	1.8			We	ston and Samp	son
SPRI	IN/A	IVIFKI	1.0	Work Order			Purpose	
QSR	N/A	QMR	2511			Ma	intenance Rela	nted
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label
1	1	J_Am	brose	Downstream	2016	0504	5-4	- 16
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather	
1.	.8	U-311	-12217	Heavy Cleaning	12:	:47	Saturated	
		Date C	Cleaned		End	Time	Additio	nal Info
		2016	0504		13:	:20	line is par	rshel plu





Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
19	94	Worces	ster- MA	Sargent Street	Bri	ick	Light High	Combined
Upstrea	am MH	Total	Length	Year Laid	Sha	ape	Location	n Details
215	544	18	80		0\	/al		
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint	
222	279	18	80		42	32		
SPR	N/A	MPR	11	PO Number			Customer	
SPRI	N/A	MPRI	1.8	-		We	ston and Samp	son
SPRI	IN/A	IVIPRI	1.0	Work Order			Purpose	
QSR	N/A	QMR	2511			Ma	aintenance Rela	nted
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label
1	1	J_Am	brose	Downstream	2016	0504	5-4	-16
OF	rRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather	
1.	8	U-311	-12217	Heavy Cleaning	12:	:47	Saturated	
		Date C	leaned		End	Time	Additio	nal Info
		2016	0504		13:	:20	line is par	rshel plu





401-943-5302

Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use
19	94	Worces	ster- MA	Sargent Street	Br	ick	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location	Details
215	544	18	80		0/	/al		
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
222	279	18	80		42	32		
SPR	N/A	MPR	11	PO Number			Customer	
SPRI	NI/A	MPRI	4.0			We	eston and Sampson Purpose	
SPRI	N/A	IVIPRI	1.8	Work Order				
QSR	N/A	QMR	2511			М	aintenance Related	
OI	PR .	Surve	yed By	Direction	Da	ate	Media	alabel
1	1	J_Am	brose	Downstream	2016	0504	5-4	-16
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather	
1.	.8	U-311	-12217	Heavy Cleaning	12	:47	Saturated	
		Date C	Cleaned		End	Time	Additio	nal Info
		2016	0504		13	20	line is par	shel nlu

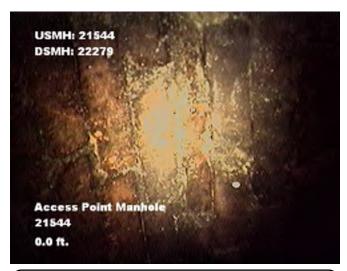


22279



401-943-5302

- 1	Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use `
	194	Worcester- MA	Sargent Street	Brick		Light High	Combined
	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	21544	180		Oval			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(22279	180		42	32		ر ا



Distance: 0.0 ft. Grade:

Condition: Access Point Manhole

Remarks: 21544



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 33.6 ft. Grade: 0 Condition: Tap Break-In Active

Remarks: N/A



Distance: Grade:

Condition: Tap Break-In Capped

Remarks: N/A



	image report 4/1 age			401 040 0002		
	Street	Material	Location C	Sewer Use		
IA	Sargent Street	Brick	Light High	Combined		
	Year Laid	Shape	Location	Details		
		Oval				

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
194	Worcester- MA	Sargent Street	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
21544	180		Oval			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
22279	180		42	32		



Distance: 63.8 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 72.8 ft. Grade: 0

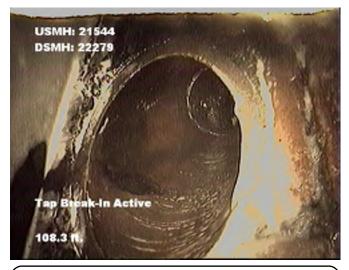
Condition: Tap Break-In Active

Remarks: N/A



Distance: 79.6 ft. Grade: 0 Condition: Tap Break-In Active

Remarks: N/A



Distance: 108.3 ft. Grade: 0

Condition: Tap Break-In Active

Remarks: N/A



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
1	194	Worcester- MA	Sargent Street	Br	ick	Light High	Combined
Γ	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	21544	180		0\	/al		
Γ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	22279	180		42	32		



Distance: 133,2 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance: 136.7 ft. Grade: 2

Condition: Tap Break-In Capped

Remarks: N/A



Distance:165.1 ft.Grade:2Condition:Obstacle Built Into StructureRemarks:steel plate through line



Distance: 172.2 ft. Grade: 0

Condition: Tap Break-In Active

Remarks: N/A



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
1	194	Worcester- MA	Sargent Street	Br	ick	Light High	Combined
Γ	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	21544	180		0\	/al		
Γ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	22279	180		42	32		



Distance: 175.0 ft. Grade:

Condition: Alignment Right

Remarks: N/A



Distance: 175.0 ft. Grade:

Condition: General Observation

Remarks: zoomed into mh- camera cannot make bend



Distance: 180.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 22279

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
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Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



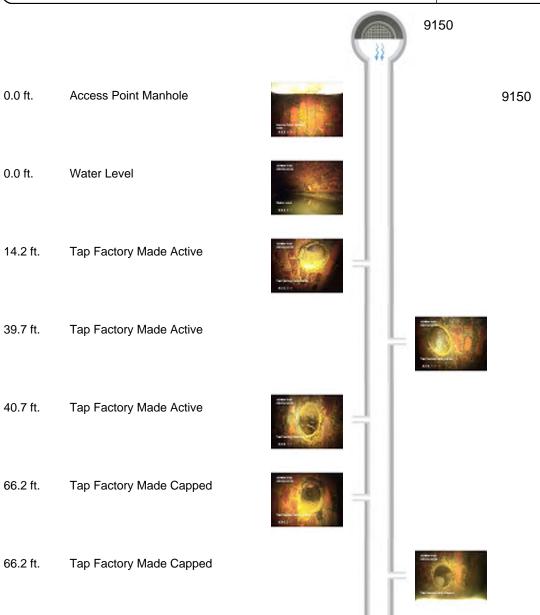
Defect Listing

Pipe Segme	ent Refere	Ci	ty	Street	Material		Location C	Sewer Use		
232	295	Worces	ster MA	Quinsigamond Ave	Brick		Light High	Combined		
Upstrea	am MH	Total L	ength	Year Laid	Sha	Shape Location Deta		n Details		
91	50	N/	Ά		Circ	ular				
DS Ma	anhole	Length s	urveyed	Year Renewed	Height	Width	Pipe Joint			
241	24195		3		48	48 48				
SPR	N/A	MPR N/A		MPR N/A PO Number						
CDDI	NI/A	MDDI	NI/A			N/A				
SPRI	N/A	MPRI	N/A	Work Order	ler		Purpose			
QSR	N/A	QMR	N/A			Capital Ir	mprovement Program As			
OF	PR	Surveyed By		Direction Da		ate	Media	alabel		
N/	Ά	D_Me	ssier	Downstream	2016	0706				
OF	rRI	Certificate	Number	Pre-Cleaning	Time		Weather			
N/	Ά	U-214-0	6019237	Heavy Cleaning	00:04		00:04 Dry		Dry	
	Date Cleaned				End Time		Additional Info			
(20160706				00:59					

Distance	Condition	Cont. Dfct.	Values			1 - 1 - 1	Clock Position		Crada
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	9150								
0.0 ft.	Water Level				20				
14.2 ft.	Tap Factory Made Active		6		0		3		
39.7 ft.	Tap Factory Made Active		6		0		9		
40.7 ft.	Tap Factory Made Active		6		0		3		
66.2 ft.	Tap Factory Made Capped		6		0		3		
66.2 ft.	Tap Factory Made Capped		6		0		9		
83.0 ft.	Survey Abandoned				0				
Remarks:	blockage	•		•				•	



Pipe Segme	ent Refere City Street Material		erial	Location C	Sewer Use			
232	295	Worces	ster MA	Quinsigamond Ave	Bri	ick	Light High	Combined
Upstrea	am MH	Total L	_ength	Year Laid	Shape Loc		Location	n Details
91	50	N/	/ A		Circ	ular		
DS Ma	anhole	Length s	urveyed	Year Renewed	Height	Width	Pipe Joint	
241	195	83			48	48		
SPR	N/A	MPR	MPR N/A PO Number				Customer	
SPRI	N/A	MPRI	NI/A	1			N/A Purpose	
	N/A	IVIPRI	N/A	Work Order				
QSR	N/A	QMR	N/A			Capital II	Improvement Program As.	
OF	PR	Surveyed By		Direction Da		ate	Media	alabel
N/	' A	D_Me	essier	Downstream	2016	0706		
OP	PRI	Certificate	e Number	Pre-Cleaning	Tir	Time		
N/	' A	U-214-0	6019237	Heavy Cleaning	00:04		Dry	
	Date Cleaned			End Time		Additional Info		
		2016	0706		00:	:59		





401-943-5302

Pipe Segme	ent Refere	Ci	ity	Street	Material		Location C	Sewer Use		
23	295	Worces	ster MA	Quinsigamond Ave	Brick		Brick		Light High	Combined
Upstre	am MH	Total L	Length	Year Laid	Sh	Shape Location Details		Details		
91	50	N/	/A		Circ	cular				
DS M	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint			
24 ⁻	195	8	3		48	48 48				
SPR	N/A	MPR	N/A	PO Number			Customer			
CDDI	NI/A	MDDI	NI/A	1			N/A			
SPRI	N/A	MPRI	N/A	Work Order			Purpose			
QSR	N/A	QMR	N/A			Capital I	Improvement Program As			
Ol	PR	Survey	yed By	Direction	ection Da		Date		Media	label
N	/A	D_Me	essier	Downstream	2016	60706				
OF	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather			
N	/A	U-214-0	6019237	Heavy Cleaning	00:04		Dry			
		Date C	leaned		End Time		Additional Info			
	20160706				00	00:59				

83.0 ft. Survey Abandoned



blockage



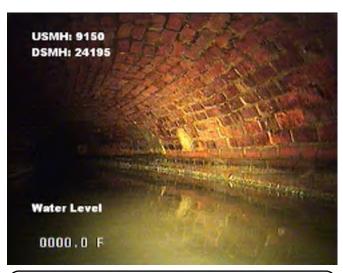
Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
23295	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9150	N/A		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
24195	83		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 9150



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 14.2 ft. Grade: 0
Condition: Tap Factory Made Active

Remarks: N/A



Distance: 39.7 ft. Grade: 0

Condition: Tap Factory Made Active

Remarks: N/A



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
23295	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9150	N/A		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
24195	83		48	48		



Distance: 40.7 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 66.2 ft. Grade: Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 66.2 ft. Grade: Condition: Tap Factory Made Capped

Remarks: N/A



Grade: Distance: 83.0 ft. 0

Condition: Survey Abandoned

Remarks: blockage

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



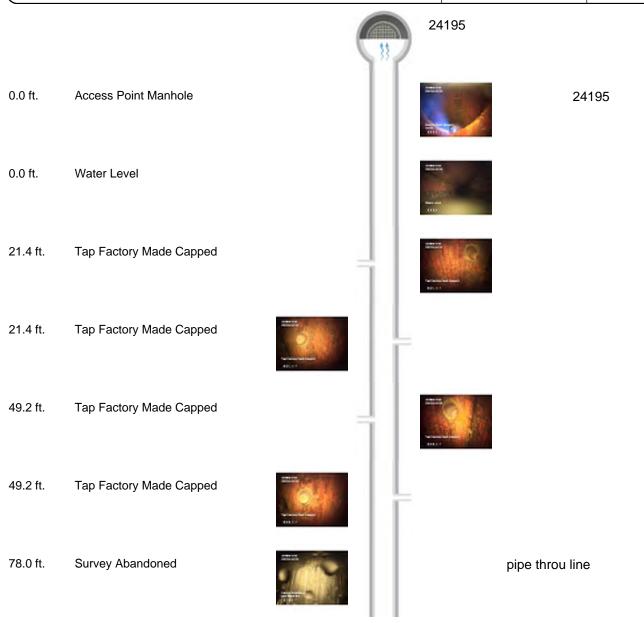
Defect Listing

Pipe Segme	ent Refere	Ci	ity	Street	Material		Location C	Sewer Use		
23295	(rev)	Worces	ster MA	Quinsigamond Ave	Brick		Brick		Light High	Combined
Upstrea	am MH	Total L	_ength	Year Laid	Sha	Shape Location De		Details		
91	50	16	61		Circ	ular				
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint			
241	24195		8		48	48 48				
SPR	N/A	MPR	N/A	PO Number	Cu		Customer			
CDDI	NI/A	MDDI	NI/A	1			N/A			
SPRI	N/A	MPRI	N/A	Work Order			Purpose			
QSR	N/A	QMR	N/A			Capital I	mprovement Pro	gram As		
OF	PR	Survey	ed By	Direction Da		ite	Media	alabel		
N/	Ά	D_Me	essier	Upstream	2016	0706				
OF	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather			
N/	Ά	U-214-0	6019237	Heavy Cleaning	01:38		01:38 Dry			
	Date Cleaned			End Time		Additional Info				
		2016	0706		01:	47				

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Overde
		Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks: 24195									
0.0 ft.	Water Level				10				
21.4 ft.	Tap Factory Made Capped		6		0		2		
21.4 ft.	Tap Factory Made Capped		6		0		10		
49.2 ft.	Tap Factory Made Capped		6		0		3		
49.2 ft.	Tap Factory Made Capped		6		0		9		
78.0 ft.	Survey Abandoned				0				
Remarks:	pipe throu line			•					



Pipe Segment Refere		Ci	ity	Street	Mate	erial	Location C	Sewer Use	
23295	5 (rev)	Worces	ster MA	Quinsigamond Ave	Bri	Brick		Combined	
Upstre	eam MH	Total I	Length	Year Laid	Sha	Shape Location D		Details	
91	150	16	61		Circular				
DS M	anhole	Length s	surveyed	Year Renewed	Height Width		Pipe Joint		
24	195	7	'8		48	48 48			
SPR	N/A	MPR	N/A	PO Number		Customer			
SPRI	N/A	MPRI	N/A			N/A			
OI IXI	13/7	IVII IXI	11//	Work Order		Purpose			
QSR	N/A	QMR	N/A		Capital Improvement Program		gram As		
0	PR	Surve	yed By	Direction	Date		Media	Media label	
N	N/A		essier	Upstream	2016	60706			
OI	OPRI		e Number	Pre-Cleaning	Time Weather		Weather		
N	N/A		6019237	Heavy Cleaning	01:38		Dry		
		Date C	leaned		End '	Time	Addition	nal Info	
		2016	0706		01:	:47			





Pipe Segment Refere		C	ity	Street	Mat	erial	Location C	Sewer Use	
23295	(rev)	Worces	ster MA	Quinsigamond Ave	Brick		Light High	Combined	
Upstrea	am MH	Total I	Length	Year Laid	Sha	Shape		Location Details	
91	50	16	61		Circular				
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
241	195	7	' 8		48	48			
SPR	N/A	MPR	N/A	PO Number		Customer			
SPRI	N/A	MPRI	N/A		N/A				
SPRI	IN/A	IVIFKI	IN/A	Work Order	Purpose				
QSR	N/A	QMR	N/A		Capital Imp		nprovement Pro	provement Program As	
OF	PR	Surve	yed By	Direction	Date		Media	Media label	
N/	/A	D_Me	essier	Upstream	2016	0706			
OF	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather		
N/	N/A		6019237	Heavy Cleaning	01:38		Dry		
		Date C	Cleaned	•	End	Time	Additio	nal Info	
		2016	0706		01:	:47			





			= -	_			
	Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	23295 (rev)	Worcester MA Quinsigamond Ave Brick		Light High	Combined		
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	9150	161		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	24195	78		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 24195



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 21.4 ft. Grade: 0
Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 21.4 ft. **Grade**: 0 **Condition**: Tap Factory Made Capped

Remarks: N/A

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919 401-943-5302



Image Report 4/Page

			_			
Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
23295 (rev)	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9150	161		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
04405	70		40	40		



Distance: 49.2 ft. Grade: Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 49.2 ft. Grade: Condition:

Tap Factory Made Capped

Remarks: N/A



Distance: 78.0 ft. Grade: 0 Condition:

Survey Abandoned Remarks: pipe throu line

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



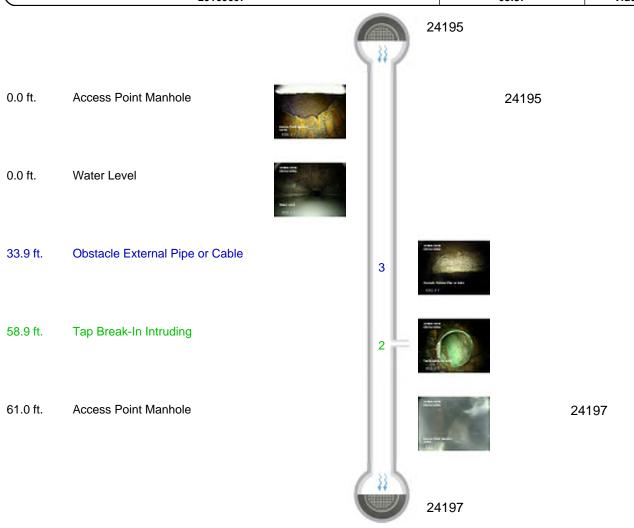
Defect Listing

Pipe Segm	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
72	264	Word	ester	Quinsigamond Ave	Br	ick	Main Highw	Combined	
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location	Details	
24	195	6	61		Circ	cular			
DS M	anhole	Length s	surveyed	Year Renewed	Height Width Pipe Joint				
24	197	6	61		48	48			
SPR	N/A	MPR	5	PO Number			Customer		
CDDI	NI/A	MDDI	2.5	-		l v	Weston & Sampson		
SPRI	N/A	MPRI	2.5	Work Order			Purpose		
QSR	N/A	QMR	3121			Infiltra	tion/Inflow Investigat		
0	PR	Surve	yed By	Direction	Da	ate	Media	alabel	
	5	M_Tho	mpson	Downstream	2016	0607			
OI	PRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather		
2	2.5		19238	Heavy Cleaning 08:2		08:24			
		Date C	Cleaned	End		End Time Additional		nal Info	
	20160607				08:37 Video mis			islabeled	

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	24195								
0.0 ft.	Water Level				40				
33.9 ft.	Obstacle External Pipe or Cable				20		10	2	3
58.9 ft.	Tap Break-In Intruding		6	4	0	✓	9		2
61.0 ft.	Access Point Manhole				0				
Remarks:	24197								



Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use	
72	64	Word	cester	Quinsigamond Ave	Bri	ick	Main Highw	Combined	
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location	Details	
24	195	6	61		Circ	ular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	nt Width Pipe J			
24	197	6	61		48	48			
SPR	N/A	MPR	5	PO Number			Customer	Customer	
CDDI	NI/A	MDDI	2.5	1	We		leston & Sampson		
SPRI	N/A	MPRI	2.5	Work Order			Purpose		
QSR	N/A	QMR	3121			Infiltr	ation/Inflow Investigat		
OI	PR .	Surve	yed By	Direction	Da	ate	Media	label	
	5	M_Tho	mpson	Downstream	2016	0607			
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather		
2	.5	U-06-	19238	Heavy Cleaning 08:24		:24	Dry		
		Date C	Cleaned	•	End	Time	Addition	nal Info	
	20160607				08:37 Video			slabeled	





Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
7264	Worcester	Quinsigamond Ave	Brick		Main Highw	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
24195	61		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
24197	61		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 24195



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance:33.9 ft.Grade:3Condition:Obstacle External Pipe or Cable

Remarks: N/A



Distance: 58.9 ft. Grade: 2

Condition: Tap Break-In Intruding

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Image Report 4/Page

401-943-5302

Pipe Segment Refere.	. City	Street	Material		Location C	Sewer Use
7264	Worcester	Quinsigamond Ave	Brick		Main Highw	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
24195	61		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
24197	61		48	48		



Distance: 61.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 24197

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
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City:	Johnston
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Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



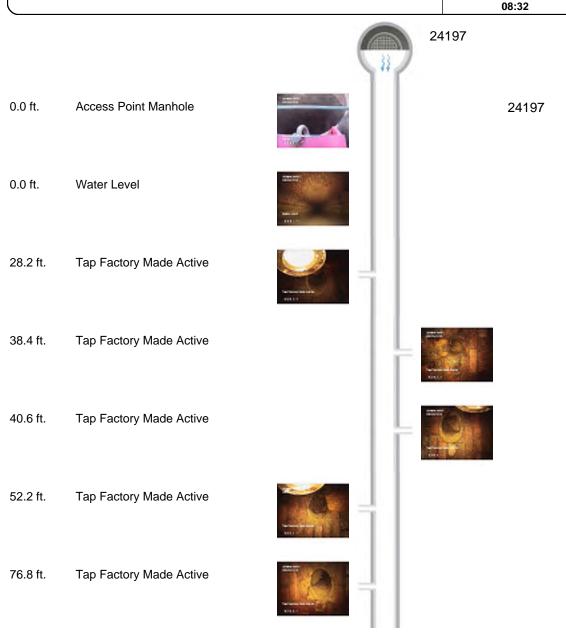
Defect Listing

Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use	
288	368	Worces	ster MA	Quinsigamond Ave	Bri	ck	Light High	Combined	
Upstre	am MH	Total I	Length	Year Laid	Sha	ipe	Location	n Details	
24 ⁻	197	10	06		Circ	cular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	ght Width Pipe			
91	10	10	06		48	48			
SPR	N/A	MPR	N/A	PO Number			Customer		
CDDI	NI/A	MDDI	NI/A	-	W		eston & Sampson		
SPRI	N/A	MPRI	N/A	Work Order			Purpose		
QSR	N/A	QMR	N/A			Capital In	provement Program As		
OI	PR	Surve	yed By	Direction	Da	ite	Media	alabel	
N.	/A	D_Me	essier	Downstream	2016	0624			
OF	PRI	Certificate	e Number	Pre-Cleaning	Tir	ne	Weather		
N.	/A	U-214-06019237		Heavy Cleaning	07:52		Dry		
		Date C	Date Cleaned End Time Additional			nal Info			
					08:	32			

Distance	Condition	Cont. Dfct.	Values			Joint	Clock P	osition	Grade
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	24197	·							
0.0 ft.	Water Level				15				
28.2 ft.	Tap Factory Made Active		6		0		3		
38.4 ft.	Tap Factory Made Active		6		0		9		
40.6 ft.	Tap Factory Made Active		6		0		9		
52.2 ft.	Tap Factory Made Active		6		0		3		
76.8 ft.	Tap Factory Made Active		6		0		3		
88.7 ft.	Tap Factory Made Active		6		0		9		
106.0 ft.	Access Point Manhole				0				
Remarks:	9110	•	•	•					•



Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use
288	868	Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Shape		Location	n Details
24	197	10	06		Circ	cular		
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint	
91	10	10	06		48	48		
SPR	N/A	MPR	N/A	PO Number		Customer Weston & Sampson		
SPRI	N/A	MPRI	N/A	1				on
SPRI	IN/A	IVIPRI	N/A	Work Order			Purpose	
QSR	N/A	QMR	N/A			Capital Ir	nprovement Pro	gram As
OI	PR	Surve	yed By	Direction	Da	ate	Media	alabel
N.	/A	D_Me	essier	Downstream	2016	0624		
OF	PRI	Certificat	e Number	Pre-Cleaning	Ti	me	Weather	
N/A		N/A U-214-06019237		Heavy Cleaning 07		07:52		
		Date C	Cleaned		End	Time	ime Additional Info	
					00	.22	1	





401-943-5302

Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use
288	868	Worces	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstre	am MH	Total I	_ength	Year Laid	Sh	ape	Location	n Details
24	197	10	06		Circular		rcular	
DS M	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
91	10	10	06		48	48		
SPR	N/A	MPR	N/A	PO Number		Customer		
SPRI	N/A	MPRI	N/A	1	We		eston & Sampson	
SFRI	IN/A	IVIFKI	IN/A	Work Order			Purpose	
QSR	N/A	QMR	N/A			Capital In	mprovement Program As	
OI	PR	Surve	yed By	Direction	Da	ate	Media	a label
N	/A	D_Me	essier	Downstream	2016	0624		
OF	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
N	/A	U-214-0	6019237	Heavy Cleaning	07:52		Dry	
		Date C	leaned		End	Time	Additio	nal Info
					ns.	.32		

88.7 ft. Tap Factory Made Active

106.0 ft. Access Point Manhole



9110



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	28868	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined
	Upstream MH	Total Length	Year Laid	Sha	Shape Location De		Details
	24197	106		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	9110	106		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 24197



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 28.2 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 38.4 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	28868	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined
	Upstream MH	Total Length	Year Laid	Sha	Shape Location De		Details
	24197	106		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	9110	106		48	48		



Distance: 40.6 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

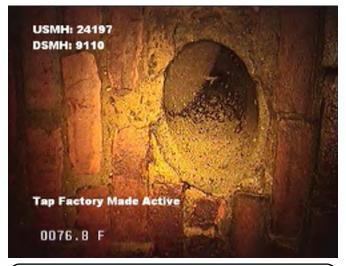
Remarks: N/A



Distance: 52.2 ft. Grade: (

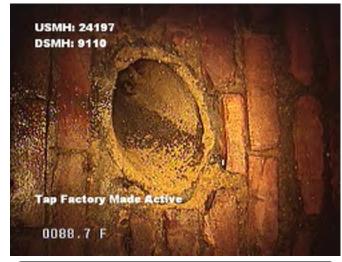
Condition: Tap Factory Made Active

Remarks: N/A



Distance: 76.8 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 88.7 ft. Grade: 0

Condition: Tap Factory Made Active

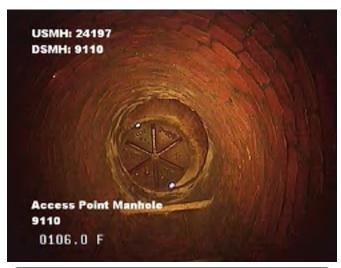
Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Image Report 4/Page

401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28868	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
24197	106		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
9110	106		48	48		



Distance: 106.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 9110

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	



Defect Listing

401-943-53	202
401-943-53	5UZ

Pipe Segment Refere		C	ity	Street	Mat	erial	Location C	Sewer Use	
28869		Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location Details		
91	10	2	12		Circ	Circular			
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Height Width			
91	12	2	12		48	48			
SPR	6	MPR	38	PO Number			Customer		
CDDI	4.5	MDDI				v	Veston & Samps	on	
SPRI	1.5	MPRI	2	Work Order			Purpose		
QSR	3113	QMR	2B00			Capital Ir	nprovement Pro	gram As	
OF	PR	Surve	yed By	Direction	Da	ate	Media label		
4	4	D_Me	essier	Downstream	2016	0624			
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather		
1.	.9	U-214-0	6019237	Heavy Cleaning	08	:34	Dry		
		Date C	Cleaned		End		Additio	Additional Info	
					09	:05			

Distance	Con dition	Comt Diet		Values		laint	Clock Position		Crada
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	9110				•	•			
0.0 ft.	Water Level				20				
5.7 ft.	Infiltration Weeper				0		3		2
5.7 ft.	Deposits Attached Encrustation				5		9		2
7.4 ft.	Deposits Attached Encrustation				5		9		2
9.1 ft.	Deposits Attached Encrustation				5		9		2
18.6 ft.	Deposits Attached Encrustation				5		10		2
26.9 ft.	Infiltration Weeper				0		8		2
31.7 ft.	Tap Factory Made Active		6		0		3		
31.7 ft.	Deposits Attached Encrustation				5		3		2
31.8 ft.	Tap Factory Made Active		6		0		9		
36.5 ft.	Infiltration Weeper				0		10		2
76.1 ft.	Infiltration Weeper				0		3		2
76.2 ft.	Infiltration Weeper				0		9		2
78.2 ft.	Tap Factory Made Active		6		0		9		
78.3 ft.	Tap Factory Made Active		6		0		3		
80.8 ft.	Infiltration Stain				0		9		
80.8 ft.	Deposits Attached Encrustation				5		9		2
93.8 ft.	Infiltration Weeper				0		9		2
97.6 ft.	Surface Roughness Increased Chemical				0		9		1
97.6 ft.	Surface Roughness Increased Chemical				0		3		1
113.2 ft.	Infiltration Stain				0	✓	9		
129.5 ft.	Tap Factory Made Active		6		0		3		
129.5 ft.	Tap Factory Made Active		6		0		9		
132.4 ft.	Obstacle Intruding Thru Wall				5		11	1	2
137.6 ft.	Mortar Missing Medium				0		3		3
137.6 ft.	Infiltration Stain				0	Z	3		
137.6 ft.	Infiltration Weeper				0		9		2
142.7 ft.	Deposits Attached Encrustation				5		3		2
148.7 ft.	Tap Factory Made Active		6		0		9		
152.1 ft.	Obstacle Intruding Thru Wall				5		11	1	2
157.4 ft.	Obstacle Intruding Thru Wall				5		11	1	2



Defect Listing

Pipe Segr	nent Refere	С	ity		Street		Mat	erial		Location C	Sewer Use	
2	8869	Worces	ster MA	Quinsi	gamond A	ve	Br	ick		Light High	Combined	
Upst	ream MH	Total	_ength	Y	'ear Laid		Sh	ape		Location	Details	
9	110	2	12				Circ	ular				
DS I	Manhole	Length s	surveyed	Yea	r Renewed		Height	Wid	th	Pipe Joint		
9	112	2	12				48	48	3			
SPR	6	MPR	38		PO Nu	mber				Customer		
SPRI	1.5	MPRI	2						Wes	leston & Sampson		
	-			-	Work (Order		_		Purpose		
QSR	3113	QMR	2B00						ital Imp	provement Program As		
(OPR		yed By		Direction			ate		Media label		
	44		essier		wnstream			0624				
	OPRI		e Number		e-Cleaning			me		Weather		
	1.9		6019237	Heav	y Cleaning					Dry		
		Date C	leaned					Time		Additional Info		
							09	:05				
177.9 ft.	Tap Fa	actory Made Ac	tive		6		0		3			
178.2 ft.	Tap Fa	actory Made Ac	tive		6		0		9			
190.5 ft.	In	filtration Stain					0		9			
191.9 ft.	Surface Rough	hness Increase	d Unknown				0		3		1	
194.3 ft.	Infi	Itration Weeper					0		3		2	
202.2 ft.	Tap Fa	actory Made Ac	tive		6		0		9	9		
209.4 ft.	Tap E	Break-In Intrudi	ng		6	2	0		4		2	
212.0 ft.	Acce	ss Point Manho	le				0					
Remarks:	9112		•							•	•	



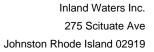
Pipe Segment Refere		C	City	Street	Mat	erial	Location C	Sewer Use
288	28869		ster MA	Quinsigamond Ave	Brick		Light High	Combined
Upstre	Upstream MH		Length	Year Laid	Sha	ape	Location	n Details
91	10	2	12		Circ	ular		
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint	
91	12	2	12		48	48		
SPR	6	MPR	38	PO Number			Customer	
SPRI	1.5	MPRI	2	1	W		eston & Sampson	
SFRI	1.5	IVIFKI		Work Order			Purpose	
QSR	3113	QMR	2B00			Capital In	nprovement Program As	
Ol	PR	Surve	yed By	Direction	Da	ate	Media label	
4	4	D_Me	essier	Downstream	2016	0624		
OF	PRI	Certificat	te Number	Pre-Cleaning	Pre-Cleaning Tir		Weather	
1	1.9		6019237	Heavy Cleaning 0		:34	Dry	
		Date C	Cleaned	•	End	Time	Additio	nal Info
(09	:05		





Т	otal Length 212 gth surveyed	Quinsigamond Ave Year Laid	Bri Sha Circ	pe	Light High	Combined Details
	212			•	Location	Details
Len			Circ	ular		
Len	gth surveyed			Circular		
		Year Renewed	Height	Width	Pipe Joint	
	212		48	48		
6 MPR	38	PO Number			Customer	
4.5 MDDI	2	-		W	eston & Sampson	
1.5 IVIPRI		Work Order				
113 QMR	2B00			Capital Im	provement Pro	gram As
S	urveyed By	Direction	Da	te	Media	label
D	_Messier	Downstream	20160	0624		
Certi	ficate Number	Pre-Cleaning	Tin	ne	Weather	
9 U-214-06019237		Heavy Cleaning 08		8:34 Dry		l
Da	ate Cleaned		End Time		Additional Info	
			09:	05		
1.	13 QMR S D Certi	.5 MPRI 2 13 QMR 2B00 Surveyed By D_Messier Certificate Number	5 MPRI 2 Work Order 13 QMR 2B00 Surveyed By Direction D_Messier Downstream Certificate Number Pre-Cleaning U-214-06019237 Heavy Cleaning	MPR 2 Work Order 13 QMR 2B00 Direction Data D_Messier Downstream 2016(Certificate Number Pre-Cleaning Time U-214-06019237 Heavy Cleaning 08: Date Cleaned End 7 Certificate Number Certificate Number Pre-Cleaning Certificate Number Certificate Number Certificate Number Pre-Cleaning Certificate Number Cer	MPRI 2 Work Order Capital Im Surveyed By Direction Date Downstream Downstream 20160624 Certificate Number Pre-Cleaning Time U-214-06019237 Heavy Cleaning 08:34 Date Cleaned End Time End Time Capital Im Capita	Weston & Samps Sam





Light High... Combined

Location C...



Pipe Segment Refere...

28869

Defect Listing Plot with Images Street

Quinsigamond Ave

City

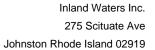
Worcester MA

Material

Brick

401-943-5302 Sewer Use

	28869	worce	Ster MA	Quinsiga	mona <i>i</i>	ave	Bri		Light High	Combined
Ups	stream MH		Length	Year	r Laid		Sha	•	Location	Details
	9110		12				Circ		<u> </u>	
DS	Manhole 9112		surveyed 12	Year R	enewed		Height 48	Width 48	Pipe Joint	
SPR	6	MPR	38		PO N	lumber			Customer	
SPRI	1.5	MPRI		-				V	Veston & Samps	on
			2		Work	Order			Purpose	
QSR	3113	QMR	2B00						nprovement Pro	
	OPR 44		yed By		ection		Da		Media	label
	OPRI		essier e Number		stream leaning		2016 Tir		Weather	
	1.9		6019237	Heavy (q	08:		Dry	
			Cleaned				End	Time		nal Info
							09:	05		
78.3 ft.	Tap Factory M	lade Active	-							
30.8 ft.	Infiltration Stai	in								
30.8 ft.	Deposits Attac	ched Encrusta	tion		2					
93.8 ft.	Infiltration Wed	eper			2	and the same of th				
97.6 ft.	Surface Rougl Chemical	hness Increas	ed		1					
97.6 ft.	Surface Rougl Chemical	hness Increas	ed		1					
113.2 ft.	Infiltration Stai	in								
129.5 ft.	Tap Factory M	lade Active		7						



Location Details

Location C...

Light High...



Pipe Segment Refere... 28869

Upstream MH

Defect Listing Plot with Images

Quinsigamond Ave

Year Laid

City

Worcester MA

Total Length

Material

Brick

Shape

401-943-5302 Sewer Use

Combined

	9110	21	2				Cir	cular		
DS	S Manhole	Length s		Year F	Renewe	d	Height	Width	Pipe Joint	
	9112	21	2				48	48		
SPR	6	MPR	38		PO	Number			Customer	
SPRI	1.5	MPRI	2	1	14/			W	eston & Samps	on
QSR	3113	QMR	2B00	1	VVO	rk Order		Capital In	Purpose nprovement Pro	aram As
- GOIX	OPR	Survey		Dire	ection		Г г	Date		label
	44	D_Me			strear	n		60624		. 10.00
	OPRI	Certificate			Cleaning			ime	Weather	
	1.9	U-214-0	6019237	Heavy	Cleani	ng	08	3:34	Dry	
		Date C	leaned					I Time	Additio	nal Info
							09	9:05		
129.5 ft.	Tap Factory M	lade Active								
132.4 ft.	Obstacle Intru	ding Thru Wal	I		2	1				
137.6 ft.	Mortar Missing	g Medium	Market Williams		3					
137.6 ft.	Infiltration Stai	'n	and a							
137.6 ft.	Infiltration We	eper			2					
142.7 ft.	Deposits Attac	ched Encrustat	iion		2					
148.7 ft.	Tap Factory M	lade Active								
152.1 ft.	Obstacle Intru	ding Thru Wal	I		2	-				
137.6 ft. 137.6 ft. 142.7 ft.	Infiltration State Infiltration Wed Deposits Attac	eper ched Encrustat	404		2					



Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
288	869	Worcester MA		Quinsigamond Ave	Brick		Light High	Combined	
Upstrea	am MH	Total	Length	Year Laid	Sha	ape	Location	n Details	
91	10	2	12		Circ	ular			
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint		
91	12	2	12		48	48	8		
SPR	6	MPR	38	PO Number	per		Customer		
CDDI	4.5	MDDI	•	-	v		leston & Sampson		
SPRI	1.5	MPRI	2	Work Order			Purpose		
QSR	3113	QMR	2B00			Capital Im	I Improvement Program As		
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label	
4	4	D_Messier		Downstream	20160624				
OF	PRI	Certificate Number		Pre-Cleaning	Time		Weather		
1.	9	U-214-06019237		Heavy Cleaning	08:34		Dry		
		Date C	Cleaned		End	Time	Additio	nal Info	
					09	:05			



Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing Plot with Images

401-943-5302

Pipe Segm	ent Refere	C	ity	Street	Mat	terial	Location C	Sewer Use
28	869	Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Sh	ape	Location	n Details
91	10	2	12		Circular			
DS M	anhole	Length:	surveyed	Year Renewed	Height	Width Pipe Joint		
91	12	2	12		48	48		
SPR	6	MPR	38	PO Number			Customer	
CDDI	4.5	MDDI				\ \	Weston & Samps	on
SPRI	1.5	MPRI	2	Work Order			Purpose	
QSR	3113	QMR	2B00			Capital I	mprovement Pro	gram As
0	PR	Surve	yed By	Direction	Da	ate	Media	alabel
4	14	D_Me	essier	Downstream	2016	20160624		
OF	PRI	Certificat	e Number	Pre-Cleaning	Ti	me	Weather	
1	.9	U-214-06019237		Heavy Cleaning	08	:34	Dry	
		Date C	Cleaned		End	Time	Additio	nal Info
				09	:05			

212.0 ft. Access Point Manhole



9112

9112



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28869	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
9110	212		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
9112	212		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 9110



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 5.7 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 5.7 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	28869	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	9110	212		Circular			
Г	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	9112	212		48	48		



Distance:7.4 ft.Grade:2Condition:Deposits Attached Encrustation

Remarks: N/A



Distance: 9.1 ft. **Grade:** 2 **Condition:** Deposits Attached Encrustation

Remarks: N/A



Distance:18.6 ft.Grade:2Condition:Deposits Attached Encrustation

Remarks: N/A



Distance: 26.9 ft. Grade: 2

Condition: Infiltration Weeper



illiage Report 4/Fag	j e	•	+01-943-3302
Street	Material	Location C	Sewer Use
Quinsigamond Ave	Brick	Light High	Combined
Year Laid	Shape	Location	Details





Distance: 31.7 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



31.7 ft. Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: Grade: 0 Condition: Tap Factory Made Active

Remarks: N/A



Distance: 36.5 ft. Grade:

Condition: Infiltration Weeper



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28869	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
9110	212		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
9112	212		48	48		



Distance: 76.1 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 76.2 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 78.2 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 78.3 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
28869	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
9110	212		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
9112	212		48	48		



Distance: 80.8 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 80.8 ft. **Grade:** 2 **Condition:** Deposits Attached Encrustation

Remarks: N/A



Distance: 93.8 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 97.6 ft. Grade: 1

Condition: Surface Roughness Increased Chemical



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28869	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
9110	212		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
9112	212		48	48		



Distance: 97.6 ft. Grade:

Condition: Surface Roughness Increased Chemical

Remarks: N/A



Distance: 113.2 ft. Grade: (

Condition: Infiltration Stain

Remarks: N/A



Distance: 129.5 ft. Grade: 0
Condition: Tap Factory Made Active

Remarks: N/A



Distance: 129.5 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28869	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
9110	212		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
9112	212		48	48		



Distance: 132.4 ft. **Grade:** 2 **Condition:** Obstacle Intruding Thru Wall

Remarks: N/A



Distance: 137.6 ft. Grade: 3

Condition: Mortar Missing Medium

Remarks: N/A



Distance: 137.6 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



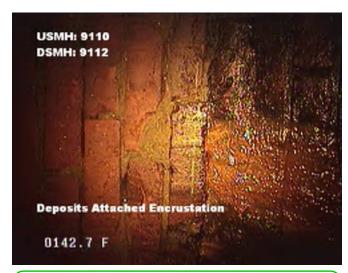
Distance: 137.6 ft. Grade: 2

Condition: Infiltration Weeper



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	28869	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined
Г	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	9110	212		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(9112	212		48	48		



142.7 ft. Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 148.7 ft. Grade:

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: Grade: Condition: Obstacle Intruding Thru Wall

Remarks: N/A



Distance: 157.4 ft. Grade: Condition: Obstacle Intruding Thru Wall



401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28869	Worcester MA	Quinsigamond Ave	Br	Brick		Combined
Upstream MH	Total Length	Year Laid	Shape		Location	Details
9110	212		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
9112	212		48	48		



Distance: Grade: 177.9 ft. Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 178.2 ft. Grade:

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 190.5 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 191.9 ft. Grade:

Condition: Surface Roughness Increased Unknown



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	28869	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	9110	212		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
(9112	212		48	48		



Distance: 194.3 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 202.2 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 209.4 ft. Grade: 2
Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 212.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 9112

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		



Defect Listing

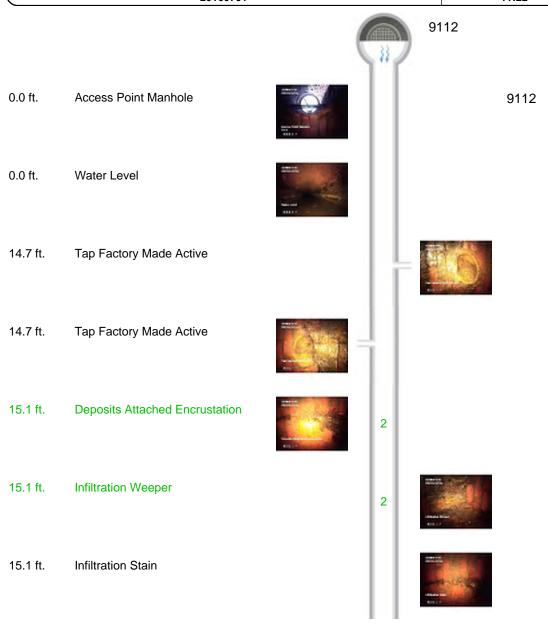
Listing	401-943-5302
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Pipe Segment Refere		С	ity	Street	Mat	erial	Location C	Sewer Use	
38711 Upstream MH		Worcester MA Total Length		Quinsigamond Ave	Br	Brick		Combined	
				Year Laid	Sh	ape	Location	n Details	
91	12	2	16		Circ	ular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
25	714	2	16		48	48		ر	
SPR	N/A	MPR	65	PO Number			Customer		
CDDI	NI/A	MDDI	0.0						
SPRI	N/A	MPRI	0.9	Work Order			Purpose		
QSR	N/A	QMR	312E			Capital I	nprovement Program As		
OI	PR .	Surve	yed By	Direction	Direction Date Downstream 20160701				
6	5	D_Me	essier	Downstream					
OF	PRI	Certificat	e Number	Pre-Cleaning	Ti	me	Weather		
0	.9	U-214-06019237		Heavy Cleaning	10	10:59			
	Date Cleaned			End	Time	Additio	nal Info		
	20160701				11	:22			

Distance	Condition	Comt Diet		Values		laint	Clock P	osition	Grade
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	9112								
0.0 ft.	Water Level				10				
14.7 ft.	Tap Factory Made Active		6		0		9		
14.7 ft.	Tap Factory Made Active		6		0		3		
15.1 ft.	Deposits Attached Encrustation				5		3		2
15.1 ft.	Infiltration Weeper				0		9		2
15.1 ft.	Infiltration Stain				0		7	5	
24.8 ft.	Infiltration Stain	S01			0		9		
32.5 ft.	Infiltration Weeper				0		9		2
40.5 ft.	Tap Factory Made Active		6		0		9		
47.3 ft.	Deposits Attached Encrustation	S02			5		10		2
61.9 ft.	Tap Factory Made Active		6		0		3		
61.9 ft.	Tap Factory Made Active		6		0		9		
69.1 ft.	Deposits Attached Encrustation				5		3		2
76.7 ft.	Infiltration Dripper				0		9		3
88.7 ft.	Tap Factory Made Active		6		0		9		
113.1 ft.	Tap Factory Made Active		6		0		3		
113.1 ft.	Tap Factory Made Active		6		0		9		
117.4 ft.	Infiltration Stain				0		11		
137.1 ft.	Tap Factory Made Active		6		0		3		
138.4 ft.	Tap Factory Made Active		6		0		9		
164.8 ft.	Tap Factory Made Active		6		0		9		
164.8 ft.	Deposits Attached Encrustation				10		9		2
175.0 ft.	Deposits Attached Encrustation	F02			5		10		2
204.4 ft.	Tap Factory Made Active		6		0		9		
216.0 ft.	Access Point Manhole				0				
Remarks:	22287	'		•					
216.0 ft.	Infiltration Stain	F01			0		9		



Pipe Segme	Pipe Segment Refere		ity	Street	Mat	erial	Location C	Sewer Use	
387	38711		ster MA	Quinsigamond Ave	Brick		Light High	Combined	
Upstre	am MH	Total I	Length	Year Laid	Sha	ape	Location	on Details	
91	12	2.	16		Circ	ular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
257	714	2.	16		48	48			
SPR	N/A	MPR	65	PO Number			Customer		
0001	NI/A	MDDI		1			N/A		
SPRI	N/A	MPRI	0.9	Work Order			Purpose		
QSR	N/A	QMR	312E			Capital Ir	mprovement Program As		
OF	PR	Surve	yed By	Direction	Da	ate	Media	alabel	
6	5	D_Me	essier	Downstream	2016	0701			
OF	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather		
0	0.9 U-214-0601923		6019237	Heavy Cleaning	10:59		Dry		
		Date C	Cleaned	•	End	Time	Additio	nal Info	
	20160701				11	22			





Location C	Sewer Use
Light High	Combined
Location	n Details
Pipe Joint	
Customer	
N/A	
Purpose nprovement Program As	
Weather	
Dry	
Additio	nal Info
pro	Media Weather Dry



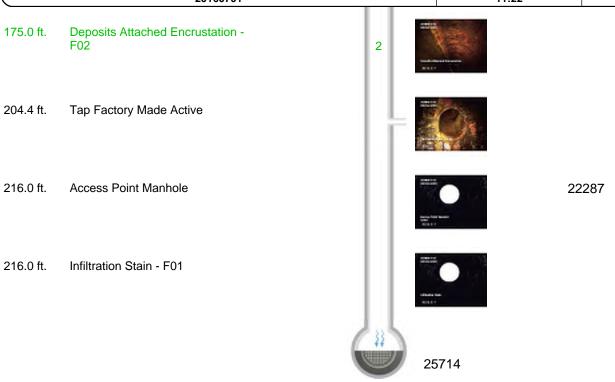


Pipe Segment Refere 38711 Upstream MH		С	ity	Street	Mat	erial	Location C	Sewer Use
		Worcester MA Total Length		Quinsigamond Ave	Brick		Light High	Combined
				Year Laid	Sha	Shape		Location Details
91	12	2	16		Circ	ular		
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint	
257	714	2	16		48	48		
SPR	N/A	MPR	65	PO Number	PO Number		Customer	
0001	N1/A	MDDI					N/A	
SPRI	N/A	MPRI	0.9	Work Order			Purpose	
QSR	N/A	QMR	312E			Capital II	nprovement Program As	
OF	PR	Surve	yed By	Direction		Date Media lab		label
6	5	D_Me	essier	Downstream	20160701			
OF	rRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather	
0.9 U-		U-214-0	6019237	Heavy Cleaning	10:	:59	Dry	
Date Cleaned				End Time		Additio	nal Info	
		2016	60701		11:	:22		



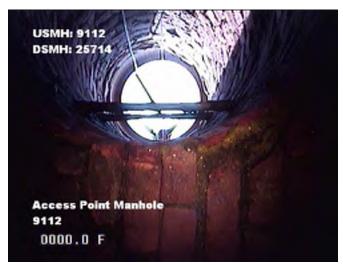


Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
38711		Worcester MA		Quinsigamond Ave	Brick		Light High	Combined
Upstrea	am MH	Total	Length	Year Laid	Sha	аре	Location	n Details
91	12	2	16		Circ	ular		
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
257	714	2	16		48	48		
SPR	N/A	MPR	65	PO Number	PO Number		Customer	
CDDI	NI/A	MDDI	0.0				N/A	
SPRI	N/A	MPRI	0.9	Work Order			Purpose	
QSR	N/A	QMR	312E			Capital In	nprovement Program As	
OF	PR	Surve	yed By	Direction	Da	ate Media label		a label
6	5	D_Messier		Downstream	20160701			
OF	rRI	Certificate Number		Pre-Cleaning	Time		Weather	
0.	0.9 U-214-06019237 Date Cleaned		6019237	Heavy Cleaning 10		10:59		
				End Time Additional I		nal Info		
	20160701				11:	:22		





Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
38711	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9112	216		Circ	cular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
25714	216		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 9112



Distance: 0.0 ft. Grade: (

Condition: Water Level

Remarks: N/A



Distance: 14.7 ft. **Grade**: **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 14.7 ft. Grade: 0

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
38711	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9112	216		Circ	cular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
25714	216		48	48		



Distance: 15.1 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 15.1 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 15.1 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 24.8 ft. Grade: 0

Condition: Infiltration Stain



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
38711	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9112	216		Circ	cular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
25714	216		48	48		



Distance: 32.5 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 40.5 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 47.3 ft. Grade: 2
Condition: Deposits Attached Encrustation

Remarks: N/A



Distance: 61.9 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

(Pipe Segment Refere	City	Street	Material		Material Location C	
	38711	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Г	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	9112	216		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	25714	216		48	48		



Distance: 61.9 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 69.1 ft. **Grade:** 2 **Condition:** Deposits Attached Encrustation

Remarks: N/A



Distance: 76.7 ft. Grade: 3

Condition: Infiltration Dripper

Remarks: N/A



Distance: 88.7 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

(Pipe Segment Refere	City	Street	Material		Material Location C	
	38711	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Г	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	9112	216		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	25714	216		48	48		



Distance: 113.1 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 113.1 ft. Grade:

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 117.4 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 137.1 ft. Grade:

Condition: Tap Factory Made Active



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	38711	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	9112	216		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	25714	216		48	48		



Distance: 138.4 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 164.8 ft. Grade:

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 164.8 ft. Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 175.0 ft. Grade: Condition: **Deposits Attached Encrustation**



401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
38711	Worcester MA	Quinsigamond Ave			Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
9112	216		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
25714	216		48	48		



Grade: Distance: 204.4 ft. 0

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: Grade: 216.0 ft. 0

Condition: Access Point Manhole

Remarks: 22287



Distance: 216.0 ft. Grade:

Condition: Infiltration Stain

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	



Defect Listing

Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
428	358	Worces	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstrea	am MH	Total	Length	Year Laid	Shape		Location	n Details	
222	287	2.	11		Circ	ular			
DS Ma	anhole	Length :	surveyed	Year Renewed	Height Width		Pipe Joint		
231	18	2.	11		48	48			
SPR	N/A	MPR	47	PO Number			Customer		
CDDI	NI/A	MDDI		-	W		Veston & Sampson		
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	312C			Capital II	Capital Improvement Program As.		
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label	
4	7	D_Me	essier	Downstream	2016	0627			
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather		
2	2	U-214-0	6019237	Heavy Cleaning	07:34 Dry End Time Ar		Dry		
	Date Cleaned		Cleaned				End		Additio
20160627		60627		08:22					

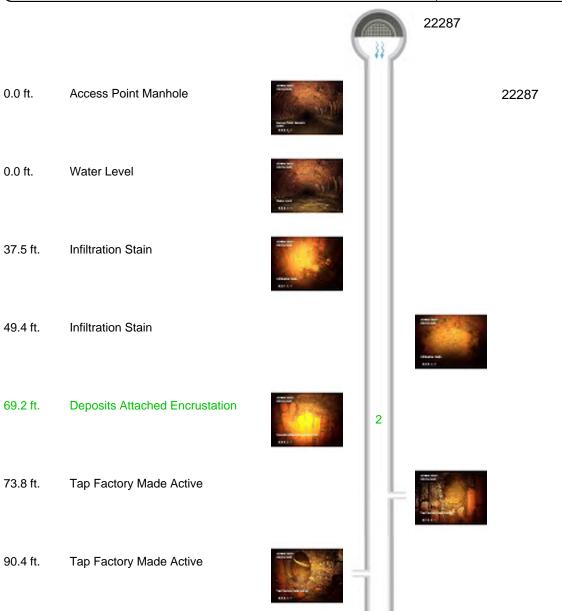
Distance	Condition	Cont. Df-t		Values		laint	Clock P	osition	Cuarla
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	22287								
0.0 ft.	Water Level				10				
37.5 ft.	Infiltration Stain				0		3		
49.4 ft.	Infiltration Stain				0		7	5	
69.2 ft.	Deposits Attached Encrustation				5		3		2
73.8 ft.	Tap Factory Made Active		6		0		9		
90.4 ft.	Tap Factory Made Active		6		0		3		
115.9 ft.	Deposits Attached Encrustation	S01			5		9		2
121.7 ft.	Tap Factory Made Active		6		0		9		
130.0 ft.	Deposits Attached Encrustation	S02			5		3		2
138.6 ft.	Tap Factory Made Active		6		0		3		
143.1 ft.	Tap Factory Made Active		6		0		9		
161.2 ft.	Infiltration Stain				0		7	5	
170.4 ft.	Tap Factory Made Active		6		0		9		
170.4 ft.	Deposits Attached Encrustation				10		9		2
170.4 ft.	Deposits Attached Encrustation	F01			5		9		2
170.4 ft.	Deposits Attached Encrustation	F02			5		3		2
188.1 ft.	Deposits Attached Encrustation				15		9		3
189.2 ft.	Tap Factory Made Active		6		0		3		
198.9 ft.	Infiltration Weeper				0		10		2
203.1 ft.	Tap Break-In Active		8		0		4		
211.0 ft.	Access Point Manhole				0				
Remarks:	9449								



Defect Listing Plot with Images

Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use	
428	358	Worcester MA		Quinsigamond Ave	Brick		Light High	Combined	
Upstrea	am MH	Total	Length	Year Laid	Shape		Location Details		
222	287	2	11		Circ	ular			
DS Ma	anhole	Length	surveyed	Year Renewed	Height Width		Pipe Joint		
231	18	211			48	48			
SPR	N/A	MPR	47	PO Number	PO Number		Customer	Customer	
SPRI	N/A	MPRI	2			V	Veston & Samps	on	
	11//	IVII IXI		Work Order			Purpose		
QSR	N/A	QMR	312C			Canital I	mprovement Pro	gram As	

N/A	MPR	47	FO Nulliber			Customer	
NI/A	MDDI				We	Weston & Sampson	
IN/A	IVIPRI		Work Order			Purpose	
N/A	QMR	312C			Capital Im	provement Program As	
PR	Surve	yed By	Direction	Date		Media label	
17	D_Me	essier	Downstream	20160627			
PRI	Certificat	e Number	Pre-Cleaning	Tin	ne	Weather	
2	U-214-0	6019237	Heavy Cleaning	07:34		Dry	
Date Cleaned				End Time		Additional Info	
	2016	60627		08:	22		
	N/A N/A PR PR	N/A MPRI N/A QMR PR Surve 17 D_M PRI Certificat 2 U-214-0	N/A MPRI 2 N/A QMR 312C PR Surveyed By PR D_Messier PRI Certificate Number Q U-214-06019237	N/A MPRI 2 Work Order N/A QMR 312C PR Surveyed By Direction D_Messier Downstream PRI Certificate Number Pre-Cleaning U-214-06019237 Heavy Cleaning Date Cleaned	N/A MPRI 2 Work Order N/A QMR 312C PR Surveyed By Direction Da PR D_Messier Downstream 2016 PRI Certificate Number Pre-Cleaning Tin Q U-214-06019237 Heavy Cleaning 07: Date Cleaned End End	N/A MPRI 2 Work Order N/A QMR 312C Capital Im PR Surveyed By Direction Date 17 D_Messier Downstream 20160627 PRI Certificate Number Pre-Cleaning Time 2 U-214-06019237 Heavy Cleaning 07:34 Date Cleaned End Time	N/A MPRI 2 Work Order Purpose N/A QMR 312C Capital Improvement Processor PR Surveyed By Direction Date Media PR D_Messier Downstream 20160627 PRI Certificate Number Pre-Cleaning Time Weather Q U-214-06019237 Heavy Cleaning 07:34 Dry Date Cleaned End Time Addition





			Defe	ct Listing	Plot with	Images		•	401-943-5302
· · · · · ·	ment Refere		City	_	treet		terial	Location C	Sewer Use
	2858		ster MA		amond Ave		ick	Light High	Combined
	tream MH		Length	Yea	ar Laid		ape	Location	n Details
	22287		:11				cular		
	Manhole	_	surveyed	Year I	Renewed	Height	Width	Pipe Joint	
2	23118	2	11			48	48		
SPR	N/A	MPR	47		PO Number			Customer	
SPRI	N/A	MPRI	2		Work Order		'	Weston & Samps Purpose	on
QSR	N/A	QMR	312C		Trem erae.		Capital I	mprovement Pro	gram As
	OPR	Surve	eyed By	Dir	ection	Di	ate		a label
	47	D_M	essier	Dowr	nstream	2016	60627		
	OPRI	Certifica	te Number	Pre-C	Cleaning	Ti	me	Weather	
	2	U-214-0	06019237	Heavy	Cleaning	07	:34	Dry	
		Date	Cleaned			End	Time	Additio	nal Info
		201	60627			08	:22		
121.7 ft. 130.0 ft.	Tap Factory M Deposits Attac S02	ched Encrusta	ation -		2				
143.1 ft.	Tap Factory N								
161.2 ft.	Infiltration Sta	in							

170.4 ft. Tap Factory Made Active

170.4 ft. **Deposits Attached Encrustation**

2



Defect Listing Plot with Images

Pipe Segme	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use	
428	358	Worce	ster MA	Quinsigamond Ave	Bri	ck	Light High	Combined	
Upstrea	am MH	Total	_ength	Year Laid	Sha	ipe	Location Details		
222	287	2.	11		Circular				
DS Ma	anhole	Length s	surveyed	Year Renewed	Height Width		Pipe Joint		
231	118	2	11		48	48 48			
SPR	N/A	MPR	47	PO Number			Customer	Customer	
SPRI	N/A	MPRI	2			V	Veston & Samps	on	
SPKI	IN/A	IVIFKI		Work Order			Purpose		
QSR	N/A	QMR	312C			Capital Ir	nprovement Pro	gram As	
OF	PR .	Surve	yed By	Direction	Da	te	Media	alabel	
4	7	D_Me	essier	Downstream	2016	0627			
OF	PRI	Certificat	e Number	Pre-Cleaning	Tin	ne	Weather		
2	2	U-214-0	6019237	Heavy Cleaning	07:	34	Dry		
		Date C	leaned		End ⁻	Гime	Additio	nal Info	
		2016	0627		08:	22			





401-943-5302

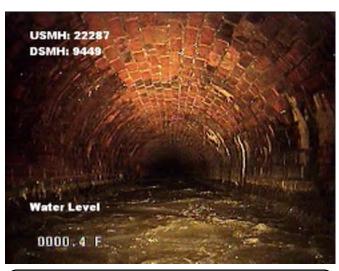
Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
42858	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
22287	211		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23118	211		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 22287



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 37.5 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 49.4 ft. Grade: 0

Condition: Infiltration Stain



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
42858	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
22287	211		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23118	211		48	48		



Distance: 69.2 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 73.8 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 90.4 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 115.9 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation



image iteport #/1 ag	je		101-040-0002
Street	Material	Location C	Sewer Use
Quinsigamond Ave	Brick	Light High	Combined
Year Laid	Shape	Location Details	
	l		

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
42858	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
22287	211		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23118	211		48	48		



Distance: 121.7 ft. Grade: Condition: Tap Factory Made Active

Remarks: N/A



130.0 ft. Grade: Distance: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 138.6 ft. Grade: 0 Condition: Tap Factory Made Active

Remarks: N/A



Distance: 143.1 ft. Grade: 0 Condition:

Tap Factory Made Active



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Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
42858	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
22287	211		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23118	211		48	48		



Distance: 161.2 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 170.4 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 170.4 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A

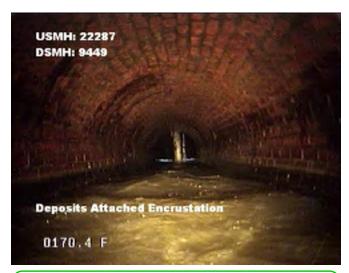


Distance: 170.4 ft. Grade: 2
Condition: Deposits Attached Encrustation



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	42858	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	22287	211		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	23118	211		48	48		



Distance: 170.4 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 188.1 ft. **Grade**: 3 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 189.2 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 198.9 ft. Grade: 2

Condition: Infiltration Weeper



401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
42858	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
22287	211		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23118	211		48	48		



Distance: 203.1 ft. Grade: 0

Condition: Tap Break-In Active

Remarks: N/A



Distance: 211.0 ft. Grade: (

Condition: Access Point Manhole

Remarks: 9449

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	



Defect Listing

Pipe Segm	ent Refere	C	ity	Street	Mate	erial	Location C	Sewer Use
10	090	Worce	ster MA	Quinsigamond ave	Bri	ck	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Shape		Location Details	
23	118	2	18		Circ	ular		
DS M	anhole	Length :	surveyed	Year Renewed	Height	Height Width		
23	127	218			48	48		را
SPR	4	MPR	18	PO Number		Customer		
CDDI	4	MDDI	4		w		eston & Sampson	
SPRI	4	MPRI	1	Work Order			Purpose	
QSR	4100	QMR	2900			Capital In	nprovement Program As	
0	PR	Surve	yed By	Direction	Date		Media label	
2	22	D_Me	essier	Downstream	20160627			
O	PRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather	
1	.2	U-214-06019237		Heavy Cleaning	10:	10:46		
	Date Cleaned			End	End Time Additiona		nal Info	
		2016	60627		14:	30		

Distance	Condition	O Dist		Values		1	Clock Po	sition	0
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	23118				•				
0.0 ft.	Water Level				20				
19.3 ft.	Deposits Attached Encrustation				5		3		2
29.8 ft.	Deposits Attached Encrustation				5		9		2
60.9 ft.	Missing Brick				0		10		4
60.9 ft.	Infiltration Stain	S01			0		9		
67.0 ft.	Infiltration Stain	F01			0		9		
76.8 ft.	Tap Factory Made Active		6		0		3		
89.9 ft.	Infiltration Stain	S02			0		3		
100.7 ft.	Deposits Attached Encrustation	S03			5		9		2
104.1 ft.	Deposits Attached Encrustation				5		3		2
127.6 ft.	Tap Factory Made Active		6		0		3		
127.6 ft.	Infiltration Stain	F02			0		3		
127.6 ft.	Deposits Attached Encrustation	F03			5		9		2
128.4 ft.	Deposits Attached Encrustation				5		3		2
160.4 ft.	Tap Factory Made Active		6		0		9		
182.0 ft.	Tap Factory Made Active		8		0		3		
198.9 ft.	Infiltration Stain				0		3		
218.0 ft.	Access Point Manhole				0				
Remarks:	23127			1			'		

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing Plot with Images

Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
100	90	Worcester MA		Quinsigamond ave	Brick		Light High	Combined	
Upstre	Upstream MH		Length	Year Laid	Year Laid Shap		Location	n Details	
231	118	218			Circ	ular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
231	127	2	18		48	48			
SPR	4	MPR	18	PO Number	w		Customer		
SPRI	4	MPRI	1	_			leston & Sampson		
JFKI		IVIFIXI	'	Work Order			Purpose		
QSR	4100	QMR	2900			Capital In	mprovement Program As		
OI	PR	Surve	yed By	Direction	Da	ate	Media	a label	
2	2	D_Me	essier	Downstream	20160627				
OF	PRI	Certificat	e Number	Pre-Cleaning	Tiı	me	Weather		
1.	1.2		6019237	Heavy Cleaning	10:46		Dry		
			Date Cleaned		•	End Time		Additional Info	
			20160627		14:30				





MAETINE, 21	WCES.		Defe	ct Listing	Plot wi	th Images		Johnston Knode	101-943-5302
Pipe Se	gment Refere	(City		Street		iterial	Location C	Sewer Use
	10090	Worce	ster MA	Quinsigamond ave Brick		rick	Light High	Combined	
Ups	stream MH	Total	Length	Ye	ar Laid	Sh	nape	Location	Details
	23118	2	218			Cir	cular		
DS	Manhole	Length	surveyed	Year	Renewed	Height	Width	Pipe Joint	
	23127	2	218			48	48		_
SPR	4	MPR	18		PO Numb	per		Customer	
SPRI	4	MPRI	1				١	Weston & Samps	on
				-	Work Ord	der		Purpose	
QSR	4100	QMR	2900				-	mprovement Pro	
	OPR		eyed By		rection		ate	Media	ı label
	22		essier		nstream		60627		
	OPRI		te Number		Cleaning		ime	Weather	
	1.2		06019237	Heavy	Cleaning):46	Dry	
			Cleaned				Time	Addition	nal Info
		201	60627			14	1:30		
100.7 ft.	Deposits Atta S03	ched Encrusta	ation -		2				
04.1 ft.	Deposits Atta	ched Encrusta	ation		2	MACE			
27.6 ft.	Tap Factory N	Made Active	1	6					
127.6 ft.	Infiltration Sta	iin - F02							

127.6 ft. Deposits Attached Encrustation -F03

Deposits Attached Encrustation 128.4 ft.





2



Defect Listing Plot with Images

Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use	
100	090	Worce	ster MA	Quinsigamond ave	Br	ick	ck Light High		
Upstre	Upstream MH		Length	Year Laid	Shape		Location Details		
23 ⁻	118	2	18		Circ	Circular			
DS M	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint		
23	127	2	18		48	48			
SPR	4	MPR	18	PO Number			Customer Weston & Sampson Purpose		
CDDI		MDDI	4			v			
SPRI	4	MPRI	1	Work Order					
QSR	4100	QMR	2900			Capital II	mprovement Pro	gram As	
Ol	PR	Surve	yed By	Direction	Da	ate	Media	alabel	
2	22	D_Me	essier	Downstream	2016	0627			
OF	PRI	Certificat	te Number	Pre-Cleaning	Tir	Time			
1	1.2		1.2 U-214-06019237		Heavy Cleaning		10:46		
		Date C	Cleaned		End	End Time		nal Info	
		2016	20160627			14:30			

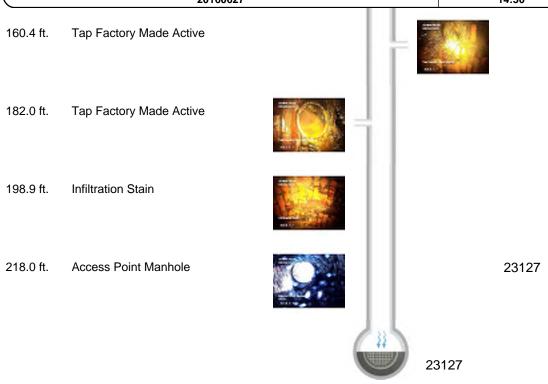
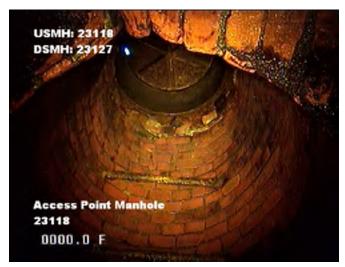




Image R

Report 4/Page	401-943-5302
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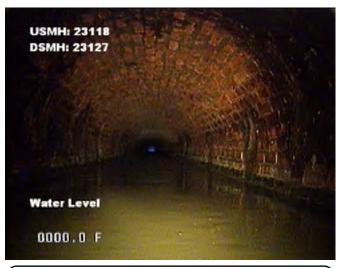
Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
10090	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Shape Location Details	
23118	218		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23127	218		48	48		



Distance: Grade: 0.0 ft.

Condition: Access Point Manhole

Remarks: 23118



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: Grade: Condition: **Deposits Attached Encrustation**



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use						
10090	Worcester MA	Quinsigamond ave Brick Ligh		Quinsigamond ave Brick Light Hi		Brick		Brick		ond ave Brick Light		Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details							
23118	218		Circular									
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint							
23127	218		48	48								



Distance: 60.9 ft. Grade: 4

Condition: Missing Brick

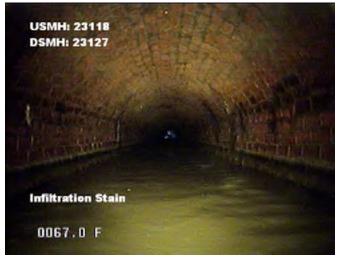
Remarks: N/A



Distance: 60.9 ft. Grade: (

Condition: Infiltration Stain

Remarks: N/A



Distance: 67.0 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 76.8 ft. Grade: 0

Condition: Tap Factory Made Active



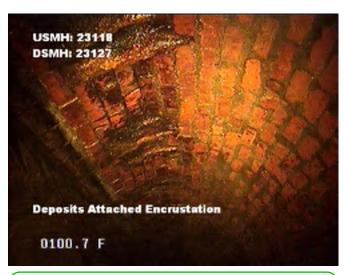
Pipe Segment Refere	City	Street	Material		Material		Location C	Sewer Use
10090	Worcester MA	Quinsigamond ave	Brick		Light High	Combined		
Upstream MH	Total Length	Year Laid	Shape		Location Details			
23118	218		Circular					
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint			
23127	218		48	18				



Distance: 89.9 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 100.7 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 104.1 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 127.6 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

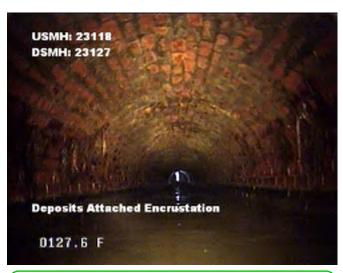
(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use		
	10090	Worcester MA	Quinsigamond ave	Brick		Brick		Light High	Combined
	Upstream MH	Total Length	Year Laid	Shape		Shape Location De		Details	
	23118	218		Circular					
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint			
l	23127	218		48	48				



Distance: 127.6 ft. Grade: (

Condition: Infiltration Stain

Remarks: N/A



Distance: 127.6 ft. **Grade:** 2 **Condition:** Deposits Attached Encrustation

Remarks: N/A



Distance: 128.4 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



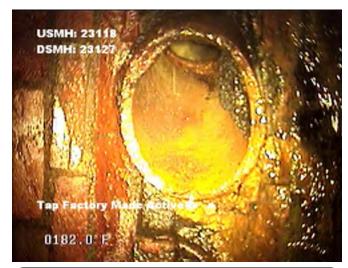
Distance: 160.4 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
10090	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sh	ape	Location Details	
23118	218		Circ	cular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
23127	218		48	48		



Distance: 182.0 ft. Grade: 0

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: 198.9 ft. Grade: (

Condition: Infiltration Stain

Remarks: N/A



Distance: 218.0 ft. **Grade**: 0 **Condition**: Access Point Manhole

Remarks: 23127

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

(Notes:)
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Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919

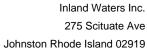


Defect Listing

Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use	
70	87	Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstrea	Upstream MH		Length	Year Laid	Sha	ape	Location	n Details	
231	27	2	10		Circ	ular			
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint		
231	20	2	10		48	48			
SPR	N/A	MPR	128	PO Number	oer		Customer		
CDDI	NI/A	MPRI		-		v	leston & Sampson		
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	2K00			Capital Ir	nprovement Pro	provement Program As	
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label	
12	28	D_Me	essier	Downstream	2016	0628			
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather		
2	2		6019237	Heavy Cleaning	07	:57	Dry		
			Cleaned		End	Time	Additio	nal Info	
		2016	60628		11:	:54			

Distance	Condition	Cont. Dfct.		Values		Joint	Clock P	osition	Crada
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	23127								
0.0 ft.	Water Level				5				
7.0 ft.	Deposits Attached Encrustation				5		10		2
22.1 ft.	Deposits Attached Encrustation				10		3		2
22.7 ft.	Infiltration Stain				0		9		
28.9 ft.	Infiltration Stain				0		12		
31.7 ft.	Deposits Attached Encrustation	S01			10		3		2
46.4 ft.	Tap Factory Made Active		6		0		10		
49.5 ft.	Infiltration Stain				0	Z	4		
56.5 ft.	Tap Factory Made Active		6		0		3		
81.9 ft.	Deposits Attached Encrustation	S02			10		9		2
107.9 ft.	Tap Factory Made Active		8		0		2		
168.1 ft.	Tap Factory Made Active		6		0		3		
210.0 ft.	Access Point Manhole				0				
Remarks:	23120				-				
210.0 ft.	Deposits Attached Encrustation	F01			10		3		2
210.0 ft.	Deposits Attached Encrustation	F02			10		9		2

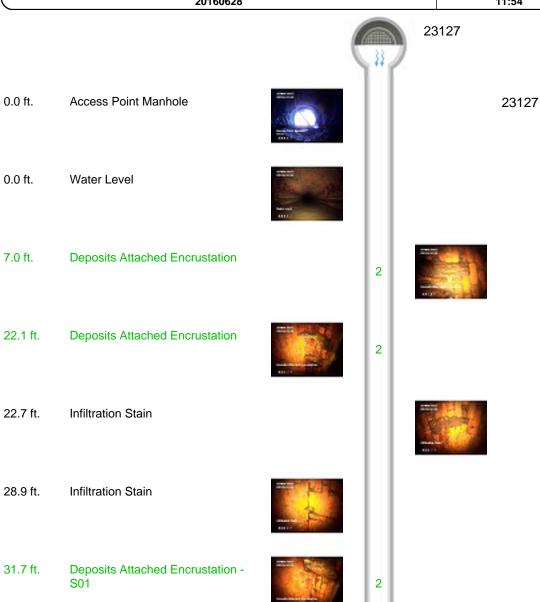
275 Scituate Ave





Defect Listing Plot with Images

Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use		
70	87	Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined		
Upstrea	am MH	Total	Length	Year Laid	Sha	ape	Locatio	n Details		
231	27	2 [.]	10		Circ	ular				
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint			
231	20	2	10		48	48				
SPR	N/A	MPR	128	PO Number			Customer			
SPRI	N/A	MPRI	2	_		W	leston & Sampson			
SFRI	IN/A	IVIFIXI		Work Order			Purpose			
QSR	N/A	QMR	2K00			Capital In	provement Program As			
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label		
12	28	D_Me	essier	Downstream	2016	0628				
OF	rRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather			
2	2		6019237	Heavy Cleaning	07	:57	Dry			
			Cleaned		End	Time	Additio	nal Info		
		2016	60628		11:	:54				





Defect Listing Plot with Images

		-	_				
	City	Street	Mat	erial	Location C	Sewer Use	
Worce	ester MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Tota	l Length	Year Laid	Sha	ape	Location	n Details	
	210		Circ	ular			
Length	surveyed	Year Renewed	Height	Width	Pipe Joint		
	210		48	48			
MPR	128	PO Number				Customer	
MDDI		1		V	leston & Sampson		
IVIFKI		Work Order			Purpose		
QMR	2K00			Capital I	mprovement Pro	Program As	
Surv	eyed By	Direction	Da	ate	Media	a label	
D_N	lessier	Downstream	2016	0628			
Certifica	ate Number	Pre-Cleaning	Tir	me	Weather		
U-214-	06019237	Heavy Cleaning	07	:57	Dry		
Date	Cleaned		End	Time	Additio	Additional Info	
201	60628		11:	:54			
	MPR MPR MPR MPRI QMR Surv D_N Certifica U-214- Date	Worcester MA Total Length 210 Length surveyed 210 MPR 128 MPRI 2	Worcester MA Total Length 210 Length surveyed 210 MPR 128 MPRI 2 QMR 2K00 Surveyed By D_Messier Certificate Number U-214-06019237 Date Cleaned Year Renewed Po Number Work Order Downstream Pre-Cleaning Heavy Cleaning	Worcester MA Quinsigamond Ave Br Total Length Year Laid Shade Sha	Worcester MA Quinsigamond Ave Brick Total Length Year Laid Shape 210 Circular Length surveyed Year Renewed Height Width 210 Work Order Work Order Work Order Capital II MPRI 2 Work Order Capital II QMR 2K00 Date Date Surveyed By Direction Date 20160628 Certificate Number Pre-Cleaning Time U-214-06019237 Heavy Cleaning 07:57 Date Cleaned End Time	Worcester MA Quinsigamond Ave Brick Light High Total Length Year Laid Shape Location 210 Circular Length surveyed Year Renewed Height Width Pipe Joint MPR 128 PO Number Customer MPRI 2 Work Order Purpose QMR 2K00 Capital Improvement Processor Surveyed By Direction Date Media D_Messier Downstream 20160628 Weather Certificate Number Pre-Cleaning Time Weather U-214-06019237 Heavy Cleaning 07:57 Dry Date Cleaned End Time Addition	





Defect Listing Plot with Images

401-943-5302

Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
70	87	Worces	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstre	Upstream MH		Length	Year Laid	Sh	ape	Location	n Details	
23	127	2	10		Circ	ular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
23	120	2	10		48	48			
SPR	N/A	MPR	128	PO Number			Customer		
SPRI	N/A	MPRI	2	1		Weston & Sampson			
SPRI	IN/A	IVIFKI		Work Order			Purpose		
QSR	N/A	QMR	2K00			Capital Im	provement Program As		
OI	PR	Surve	yed By	Direction	Da	ate	Media	a label	
1:	28	D_Me	essier	Downstream	2016	0628			
OF	PRI	Certificat	e Number	Pre-Cleaning	Ti	me	Weather		
	2		6019237	Heavy Cleaning	07	:57	Dry		
	•	Date C	Cleaned	•	End	Time	Additio	nal Info	
		2016	60628		11	:54			

210.0 ft. Deposits Attached Encrustation - F02





Pipe Segment Refere	City	Street	Material		Location C	Sewer Use	
7087	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstream MH	Total Length	Year Laid	Sh	Shape		Location Details	
23127	210		Circ	cular			
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint		
23120	210		48	48			



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 23127



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 7.0 ft. Grade: 2
Condition: Deposits Attached Encrustation

Remarks: N/A



Distance: 22.1 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
7087	Worcester MA	Quinsigamond Ave	Br	Brick		Combined
Upstream MH	Total Length	Year Laid	Sh	Shape		Details
23127	210		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
23120	210		48	48		



Distance: 22.7 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 28.9 ft. Grade: (

Condition: Infiltration Stain

Remarks: N/A



Distance: 31.7 ft. Grade: 2
Condition: Deposits Attached Encrustation

Remarks: N/A



Distance: 46.4 ft. Grade: 0

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use	
7087	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstream MH	Total Length	Year Laid	Sh	Shape		Location Details	
23127	210		Circ	cular			
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint		
23120	210		48	48			



Distance: 49.5 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 56.5 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 81.9 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 107.9 ft. Grade: 0

Condition: Tap Factory Made Active



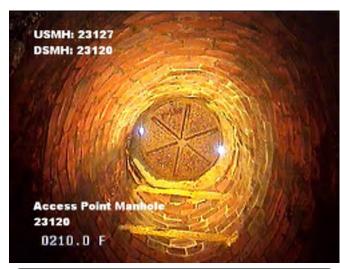
Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
7087	Worcester MA	Quinsigamond Ave	Br	Brick		Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
23127	210		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
23120	210		48	48		



Distance: 168.1 ft. Grade:

Tap Factory Made Active Remarks: N/A

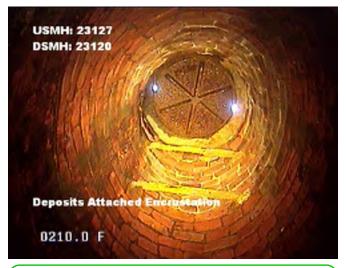
Condition:



Distance: 210.0 ft. Grade:

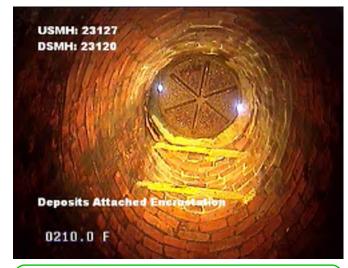
Condition: Access Point Manhole

Remarks: 23120



Distance: 210.0 ft. Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 210.0 ft. Grade: Condition: Deposits Attached Encrustation

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing

Pipe Segme	nt Refere	С	ity	Street	Mate	erial	Location C	Sewer Use	
298	868	Worces	ster MA	Quinsigamond Ave	Bri	ick	Light High	Combined	
Upstrea	am MH	Total	Length	Year Laid	Shape		Location Details		
231	20	4	13		Circ	ular			
DS Ma	nhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
100	34	43			48	48			
SPR	N/A	MPR	2	PO Number			Customer		
SPRI	N/A	MPRI		-		v	Veston & Samps	npson	
SPRI	N/A	IVIPRI	2	Work Order			Purpose		
QSR	N/A	QMR	2100			Capital Ir	nprovement Program As		
OF	PR	Surve	yed By	Direction	Da	ate	Media	alabel	
2	<u>!</u>	D_Me	essier	Downstream	2016	0628			
OF	'RI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather		
2	<u>!</u>	U-214-0	6019237	Heavy Cleaning	11:	11:56			
		Date C	Cleaned		End	Time	Additional Info		
	20160628				12:43				

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	23120								
0.0 ft.	Water Level				20				
32.9 ft.	Deposits Attached Grease				5		3		2
43.0 ft.	Access Point Manhole				0				
Remarks:	10034								



Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use	
298	368	Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined	
Upstre	am MH	Total	Length	Year Laid	Sh	ape	e Location Details		
231	120	4	13		Circ	cular			
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Width	Pipe Joint		
100	034	4	13		48	48			
SPR	N/A	MPR	2	PO Number		Customer			
CDDI	NI/A	MDDI		-		v	Veston & Samps	on	
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	2100			Capital Ir	nprovement Pro	gram As	
OF	PR	Surve	yed By	Direction	Di	ate	Media	alabel	
2	2	D_Me	essier	Downstream	2016	0628			
OF	PRI	Certificat	e Number	Pre-Cleaning	Ti	me	Weather		
2	2	U-214-0	6019237	Heavy Cleaning 11		11:56			
		Date C	Cleaned		End	Time	Additio	nal Info	
		2016	0628		12	:43			

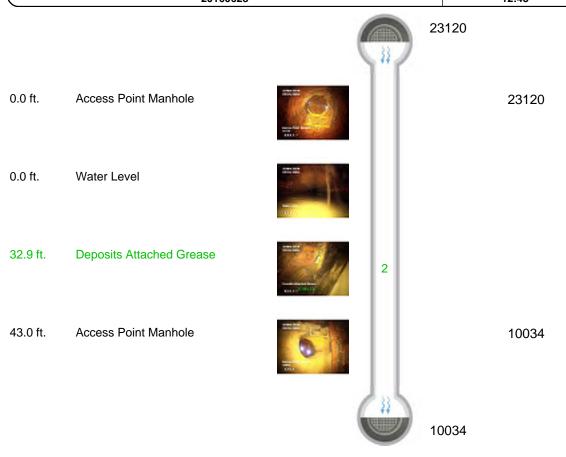
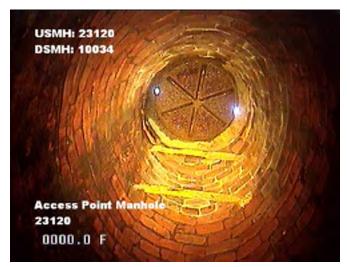




image iteport #/1 ag	je		101-040-0002
Street	Material	Location C	Sewer Use
Quinsigamond Ave	Brick	Light High	Combined
Year Laid	Shape	Location	Details
	l		

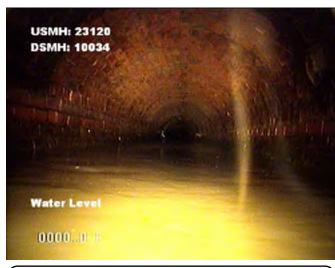




Grade: Distance: 0.0 ft. 0

Condition: Access Point Manhole

Remarks: 23120



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 32.9 ft. Grade: Condition: **Deposits Attached Grease**

Remarks: N/A



Distance: 43.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 10034



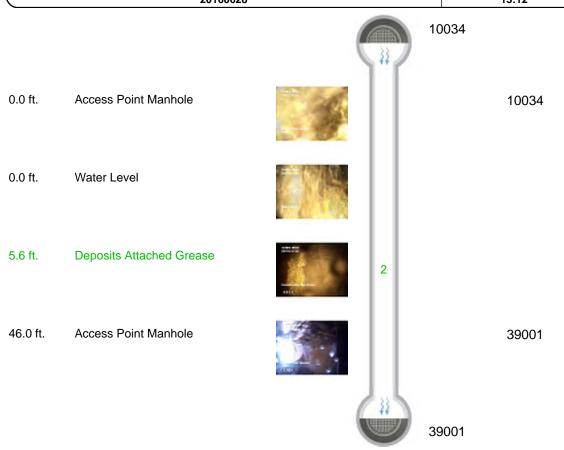
Defect Listing

Pipe Segme	nt Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
100	91	Worces	ster MA	Quinsigamond ave	Reinforced	Concrete	Light High	Combined	
Upstrea	am MH	Total I	Length	Year Laid	Shape		Location	Details	
100	34	4	6		Circ	ular	ular		
DS Ma	nhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
390	01	46			48	48			
SPR	N/A	MPR	2	PO Number					
SPRI	N/A	MPRI		-		Weston & Sampson			
SPRI	IN/A	WPRI	2	Work Order			Purpose		
QSR	N/A	QMR	2100			Capital In	nprovement Program As		
OF	PR	Surve	yed By	Direction	Da	ate	Media	alabel	
2	!	D_Me	essier	Downstream	2016	0628			
OF	'RI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather		
2	2		6019237	Heavy Cleaning	12	12:47			
		Date C	Cleaned		End	Time	Additional Info		
	20160628				13	:12			

Distance	Condition	Cont. Dfct.	Values			Joint	Clock Position		Grade
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	10034								
0.0 ft.	Water Level				25				
5.6 ft.	Deposits Attached Grease				5		3		2
46.0 ft.	Access Point Manhole				0				
Remarks:	39001								



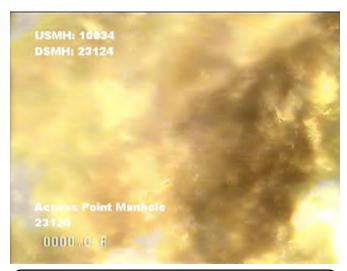
Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use	
100	091	Worce	ster MA	Quinsigamond ave	Reinforced	Concrete	Light High	Combined	
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location Details		
100	034	4	46		Circ	ular			
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint		
390	001	4	46		48	48			
SPR	N/A	MPR	2	PO Number		Customer			
CDDI	NI/A	MDDI		-		Weston & Samps		son	
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	2100			Capital In	mprovement Program As		
Ol	PR	Surve	eyed By	Direction	Da	ate	Media	alabel	
:	2	D_Me	essier	Downstream	2016	0628			
OF	PRI	Certificat	te Number	Pre-Cleaning	Tiı	me	Weather		
2	2	U-214-06019237		Heavy Cleaning	12:47		Dry		
	Date Cleaned 20160628				End	Time	Additio	nal Info	
					13	13:12			





401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
10091	Worcester MA	Quinsigamond ave	Reinforced Concrete		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
10034	46		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
39001	46		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 10034



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 5.6 ft. **Grade**: 2 **Condition**: Deposits Attached Grease

Remarks: N/A



Distance: 46.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 39001

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		



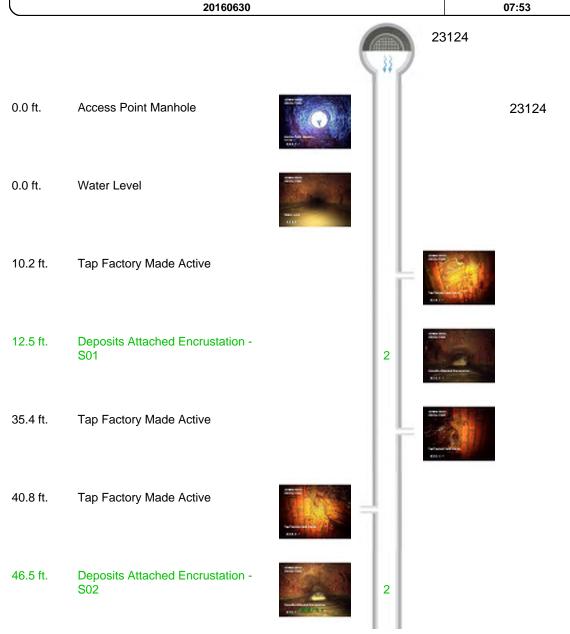
Defect Listing

Pipe Segme	ent Refere	C	ity	Street	Mate	erial	Location C	Sewer Use	
100	092	Worce	ster MA	Quinsigamond ave	Bri	ck	Light High	Combined	
Upstre	am MH	Total Length		Year Laid	Shape		Location	Details	
23	124	1	93		Circ	ular			
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint		
17	506	1	93		48	48			
SPR	N/A	MPR	30	PO Number			Customer		
CDDI	NI/A	MDDI				w		eston & Sampson	
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	2B00			Capital Im	nprovement Pro	gram As	
OI	PR	Surve	yed By	Direction	Da	ite	Media	alabel	
3	0	D_Me	essier	Downstream	2016	0630			
OF	PRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather		
:	2	U-214-06019237		Heavy Cleaning	07:	01	Dry		
	Date Cleaned				End	Time Additional Info		nal Info	
(2016	60630		07:	53			

Distance	Condition	Court Diet		Values		Laint	Clock Position		Overde
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	23124								
0.0 ft.	Water Level				15				
10.2 ft.	Tap Factory Made Active		6		0		9		
12.5 ft.	Deposits Attached Encrustation	S01			10		9		2
35.4 ft.	Tap Factory Made Active		6		0		9		
40.8 ft.	Tap Factory Made Active		6		0		3		
46.5 ft.	Deposits Attached Encrustation	S02			10		3		2
57.5 ft.	Tap Factory Made Active		6		0		9		
62.3 ft.	Deposits Attached Encrustation	F02			10		3		2
74.6 ft.	Deposits Attached Encrustation	F01			10		9		2
89.2 ft.	Tap Factory Made Active		6		0		3		
100.1 ft.	Tap Factory Made Capped		6		0		8		
105.1 ft.	Infiltration Stain				0		9	4	
124.7 ft.	Tap Factory Made Active		6		0		9		
141.1 ft.	Tap Factory Made Capped		6		0		3		
149.5 ft.	Tap Factory Made Active		6		0		9		
182.3 ft.	Tap Factory Made Active		6		0		3		
193.0 ft.	Access Point Manhole				0				
Remarks:	17506								

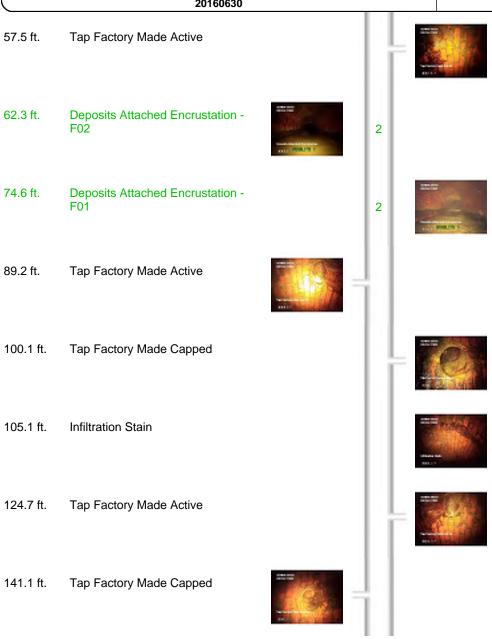


Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use
100	092	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Shape		Location	n Details
231	124	1	93		Circ	ular		
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint	
175	506	1	93		48	48		
SPR	N/A	MPR	30	PO Number		Customer		
SPRI	N/A	MPRI				v	Veston & Samps	on
SPRI	IN/A	IVIPRI	2	Work Order			Purpose	
QSR	N/A	QMR	2B00			Capital II	mprovement Pro	gram As
OF	PR .	Surve	eyed By	Direction	Da	ate	Media	alabel
3	0	D_M	essier	Downstream	2016	60630		
OF	PRI	Certificat	te Number	Pre-Cleaning	Time		Weather	
2		2 U-214-06019237		Heavy Cleaning	07	:01	Dry	
Date Cleaned				End	Time	Additio	nal Info	
		2016	cocoo		07	-52		



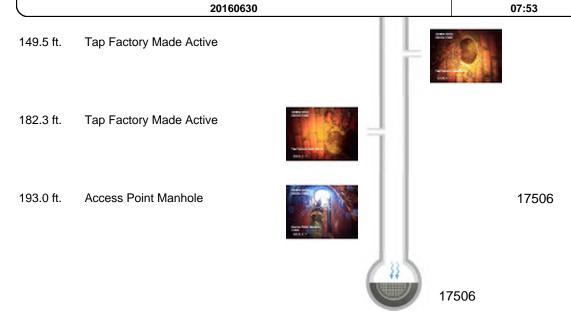


Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use
100	092	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Shape		Location Details	
231	124	19	93		Circular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
175	506	19	93		48	48		
SPR	N/A	MPR	30	PO Number			Customer	
SPRI	N/A	MPRI	2	1		W	eston & Sampson	
OI IXI	13/7	IVII IXI		Work Order			Purpose	
QSR	N/A	QMR	2B00			Capital In	provement Program As	
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label
3	0	D_Me	essier	Downstream	20160630			
OF	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather	
	2 U-214-06019237 Date Cleaned		Heavy Cleaning	07:01		Dry		
			Cleaned	•	End Time		Additional Info	
		2016	60630		07	:53		





				_	_			
Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use
100	092	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstrea	am MH	Total	Length	Year Laid	Shape		pe Location Deta	
231	124	1	93		Circ	ular		
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint	
175	506	1	93		48	48		
SPR	N/A	MPR	30	PO Number		Customer		
SPRI	N/A	MPRI	2	1		W	eston & Samps	on
SFRI	IN/A	IVIFKI		Work Order			Purpose	
QSR	N/A	QMR	2B00			Capital Im	provement Pro	gram As
OF	PR	Surve	yed By	Direction	Da	ate	Media	alabel
3	0	D_Mc	essier	Downstream	2016	0630		
OF	PRI	Certificat	te Number	Pre-Cleaning	Time		Weather	
2	2	U-214-0	6019237	Heavy Cleaning	07	:01	Dry	
		Date C	Cleaned	•	End	Time	Additio	nal Info





	illage Report #/1 age		401 343 3302		
	Street	Material	Location C	Sewer Use	
MA	Quinsigamond ave	Brick	Light High	Combined	
h	Year Laid	Shape	Location	n Details	
		Circular			

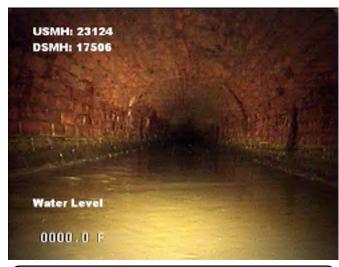




Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 23124



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: Grade: 0 Condition: Tap Factory Made Active

Remarks: N/A



Distance: Grade: Condition: Deposits Attached Encrustation



ipe Segment Refere	City	Street	Mat	Material		Sewer Use
10092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
23124	193		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
17506	193		48	48		



Distance: 35.4 ft. Grade: Condition:

Tap Factory Made Active

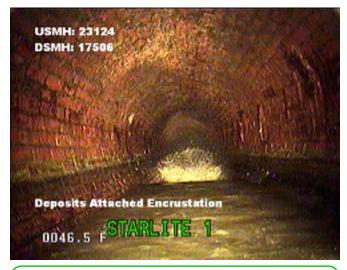
Remarks: N/A



Distance: 40.8 ft. Grade:

Condition: Tap Factory Made Active

Remarks: N/A



Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: Grade:

Condition: Tap Factory Made Active

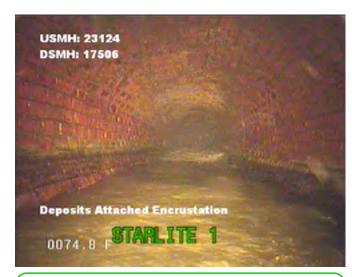


Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
10092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
23124	193		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
17506	193		48	48		



Distance: 62.3 ft. Grade: 2
Condition: Deposits Attached Encrustation

Remarks: N/A



Distance: 74.6 ft. **Grade:** 2 **Condition:** Deposits Attached Encrustation

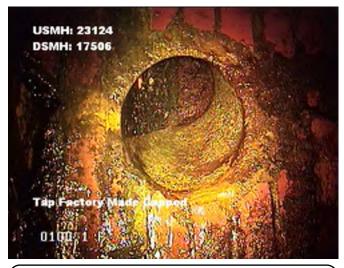
Remarks: N/A



Distance: 89.2 ft. Grade:

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 100.1 ft. **Grade**: 0 **Condition**: Tap Factory Made Capped



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	10092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	23124	193		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	17506	193		48	48		



Distance: 105.1 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 124.7 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 141.1 ft. **Grade**: 0 **Condition**: Tap Factory Made Capped

Remarks: N/A



Distance: 149.5 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
10092	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
23124	193		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
17506	193		48	48		



Distance: 182.3 ft. Grade: 0

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 193.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 17506

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		

Dry

Additional Info

401-943-5302



2

U-214-06019237

Date Cleaned

Defect Listing

Pipe Segme	ent Refere	C	ity	Street	Mat	terial	Location C	Sewer Use
70	92	Worce	ster MA	Quinsigamond ave	Brick		Light High	Combined
Upstre	am MH	Total Length		Year Laid	Shape		pe Location Details	
175	506	1:	99		Circ	cular	ular	
DS Ma	anhole	Length :	surveyed	Year Renewed	Height Width		Pipe Joint	
89	71	1:	99		48	48		
SPR	N/A	MPR	55	PO Number		Customer		
SPRI	N/A	MPRI	2	1		v	Veston & Samps	son
SPRI	N/A	IVIPRI		Work Order			Purpose	
QSR	N/A	QMR	312D			Capital Ir	nprovement Pro	gram As
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label
5	5	D_Me	essier	Downstream	2016	160630		
OF	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather	

Heavy Cleaning

07:56

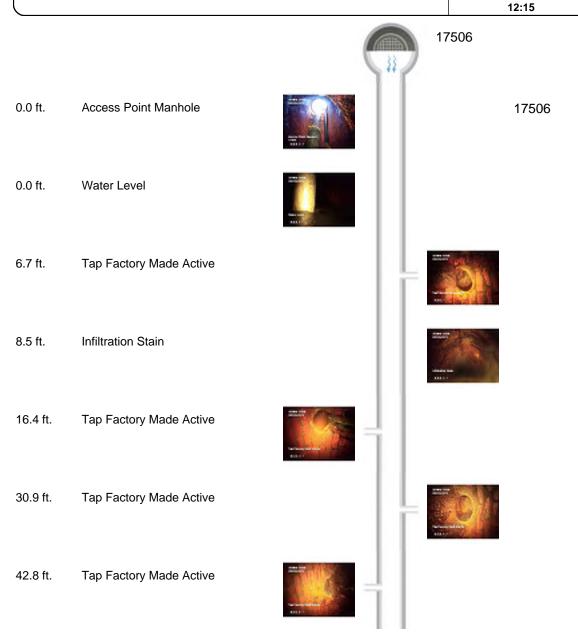
End Time

12:15

Distance	Condition	Comt Dist		Values		laint	Clock Position		Cuada
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	17506								
0.0 ft.	Water Level				15				
6.7 ft.	Tap Factory Made Active		6		0		9		
8.5 ft.	Infiltration Stain				0		7	3	
16.4 ft.	Tap Factory Made Active		6		0		3		
30.9 ft.	Tap Factory Made Active		6		0		9		
42.8 ft.	Tap Factory Made Active		8		0		3		
42.8 ft.	Deposits Attached Encrustation				10		3		2
43.0 ft.	Infiltration Weeper				0		9		2
43.7 ft.	Deposits Attached Encrustation	S01			5		9		2
66.4 ft.	Deposits Attached Encrustation	S02			5		3		2
92.6 ft.	Tap Factory Made Active		6		0		3		
103.8 ft.	Tap Factory Made Active		6		0		9		
103.8 ft.	Deposits Attached Encrustation				15		9		3
105.9 ft.	Infiltration Stain				0		12		
106.8 ft.	Deposits Attached Encrustation	F01			5		9		2
108.4 ft.	Deposits Attached Encrustation	F02			5		3		2
109.8 ft.	Infiltration Weeper				0		9		2
120.9 ft.	Deposits Attached Encrustation				10		9		2
139.8 ft.	Tap Factory Made Active		6		0		3		
141.8 ft.	Tap Break-In Intruding		6	2	0		9		2
146.4 ft.	Tap Factory Made Capped		6		0		9		
163.0 ft.	Tap Factory Made Active		6		0		2		
195.9 ft.	Tap Factory Made Active		6		0		3		
196.6 ft.	Tap Factory Made Active		6		0		9		1
199.0 ft.	Access Point Manhole				0				
Remarks:	8971			1	1				



Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use	
70	92	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combined	
Upstrea	am MH	Total	Length	Year Laid	Sha	ape	Location	Details	
175	506	1	99		Circ	ular			
DS Ma	anhole	Length	surveyed	Year Renewed	Height Width		Pipe Joint		
89	71	1	99		48	48			
SPR	N/A	MPR	55	PO Number		Customer			
0001	NI/A	MDDI	•			V	Veston & Sampson		
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	312D			Capital Ir	mprovement Pro	ogram As	
OF	PR	Surve	eyed By	Direction	Da	ate	Media	alabel	
5	5	D_M	essier	Downstream	2016	0630			
OF	PRI	Certificat	te Number	Pre-Cleaning	Time		Weather		
2	2 U-214-06019237 Heavy Cleaning 07:50		:56	Dry					
		Date 0	Cleaned		End	Time	ime Additional Info		
							1		





Pipe Segme 70 9			ity ster MA	Quinsiga	reet ımond	ave		erial ick	Location C Light High	Sewer Use Combined	
Upstrea			_ength		r Laid			ape		n Details	
175			99					ular			
DS Ma 89 7			surveyed 99	Year R	Renewe	d	Height 48	Width 48	Pipe Joint		
SPR	N/A	MPR	55		PO	Number			Customer		
SPRI	N/A	MPRI	2					V	Weston & Sampson		
	N/A				Wo	rk Order			Purpose		
QSR OP		QMR	312D yed By	Dire	ection		De	Capital II	mprovement Pro	a label	
5:			essier	Down		n		0630	Ivieuis	a label	
OP			e Number		leaning			me	Weather		
2		U-214-06019237 Heavy Cleaning 07:56		:56	Dry						
		Date C	leaned					Time	Additio	nal Info	
							12	:15			
2.8 ft. D	eposits Atta	ched Encrusta	tion		2						
3.0 ft. Ir	nfiltration We	eper			2						
	Deposits Attac 601	ched Encrusta	tion -		2						
6.4 ft. E S	Deposits Attac 602	ched Encrusta	tion -	= 1	2						
2.6 ft. T	ap Factory N	flade Active		9							
03.8 ft. T	ap Factory N	/lade Active									
03.8 ft. D	eposits Atta	ched Encrusta	tion		3						
05.9 ft. Ir	nfiltration Sta	in									

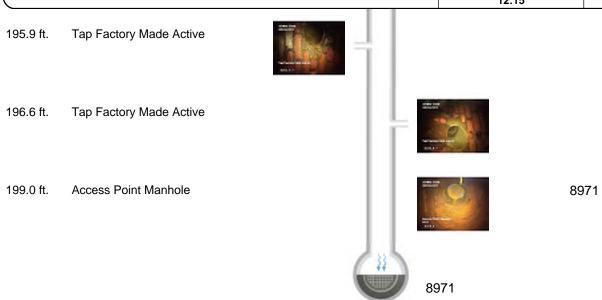


Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Us
70	92	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combine
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location	Details
175	506	1:	99		Circ	ular		
DS Ma	anhole	Length:	surveyed	Year Renewed	Height Width		Pipe Joint	
89	71	1:	99		48	48		
SPR	N/A	MPR	55	PO Number			Customer	
SPRI	N/A	MPRI	2		l w		Veston & Sampson	
SPKI	N/A	MPRI	2	Work Order			Purpose	
QSR	N/A	QMR	312D			Capital II	mprovement Program As	
OF	PR	Surve	yed By	Direction	Da	ate	Media	label
5	5	D_Me	essier	Downstream	2016	0630		
OF	PRI	Certificat	te Number	Pre-Cleaning	Tir	me	Weather	
2		U-214-06019237		Heavy Cleaning	07	:56	Dry	
		Date C	Cleaned		End	Time	Additional Info	
					12	:15		





Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use	
70	92	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combined	
Upstre	am MH	Total Length		Year Laid	Sha	ape	Location	n Details	
175	506	1	99		Circ	ular			
DS Ma	anhole	Length	surveyed	Year Renewed	Height Width		Pipe Joint		
89	71	1	99		48	48			
SPR	N/A	MPR	55	PO Number		Customer			
SPRI	N/A	MPRI			W		leston & Sampson		
SPRI	N/A	MPRI	2	Work Order			Purpose		
QSR	N/A	QMR	312D			Capital Ir	nprovement Pro	gram As	
OF	PR	Surve	eyed By	Direction	Da	ate	Media	alabel	
5	5	D_M	essier	Downstream	2016	0630			
OF	PRI	Certificat	te Number	Pre-Cleaning	Tir	Time			
2	2	U-214-0	06019237	Heavy Cleaning	07:56		Dry		
		Date 0	Cleaned		End	Time	me Additional Info		
					12	-15			





401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	7092	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	17506	199		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	8971	199		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 17506



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 6.7 ft. Grade: 0
Condition: Tap Factory Made Active

Remarks: N/A



Distance: 8.5 ft. Grade: 0

Condition: Infiltration Stain



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
7092	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
17506	199		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8971	199		48	48		



Distance: 16.4 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 30.9 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 42.8 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 42.8 ft. Grade: 2
Condition: Deposits Attached Encrustation



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
7092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sh	ape	Location Details	
17506	199		Circ	Circular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8971	199		48	48		



Distance: 43.0 ft. Grade: 2

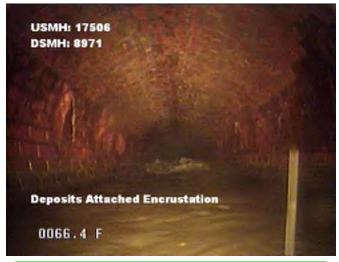
Condition: Infiltration Weeper

Remarks: N/A



Distance: 43.7 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 66.4 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 92.6 ft. Grade: 0

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
7092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sh	ape	Location Details	
17506	199		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8971	199		48	48		



Distance: 103.8 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 103.8 ft. Grade: Condition: Deposits Attached Encrustation

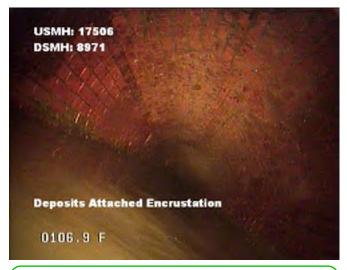
Remarks: N/A



Distance: 105.9 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 106.8 ft. Grade: Condition: Deposits Attached Encrustation



Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
7092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sh	ape	Location Details	
17506	199		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8971	199		48	48		



Distance: 108.4 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 109.8 ft. Grade: 2

Condition: Infiltration Weeper

Remarks: N/A



Distance: 120.9 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 139.8 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
7092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sha	ape	Location Details	
17506	199		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8971	199		48	48		



Distance: 141.8 ft. Grade: 2

Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 146.4 ft. Grade: 0

Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 163.0 ft. **Grade**: (**Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 195.9 ft. Grade: 0

Condition: Tap Factory Made Active



401-943-5302

Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
7092	Worcester MA	Quinsigamond ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Sha	Shape		Details
17506	199		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8971	199		48	48		,



Distance: 196.6 ft. Grade: 0

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 199.0 ft. Grade: (

Condition: Access Point Manhole

Remarks: 8971

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:	



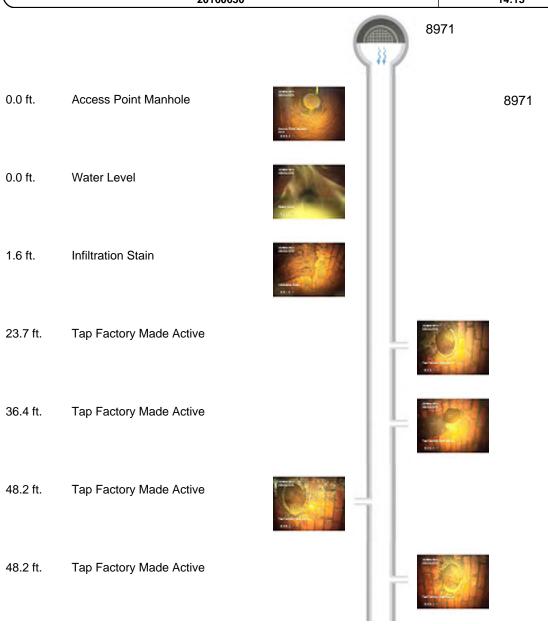
Defect Listing

Pipe Segme	nt Refere	С	ity	Street	Mat	erial	Location C	Sewer Use		
285	99	Worces	ster MA	Quinsigamond ave	Br	ick	Light High	Light High Combined Location Details		
Upstrea	am MH	Total	Length	Year Laid	Sha	ape	Location			
8971		20	05		Circ	ular				
DS Ma	inhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint			
89	70	2	05		48	48				
SPR	N/A MPR 8 PO Number			Customer	Customer					
CDDI	NI/A	MDDI				We		on		
SPRI	N/A	MPRI	2	Work Order			Purpose			
QSR	N/A	QMR	2400			Capital Ir	nprovement Pro	gram As		
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label		
8	1	D_Me	essier	Downstream	2016	0630				
OP	RI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather			
2	2		6019237	Heavy Cleaning	12	:17	Dry			
	Date Cleaned				End	Time	Additio	nal Info		
			60630		14	:13				

Distance	Condition	Comt Diet		Values		laint	Clock Position		Overde
Distance	Condition	Cont. Dfct.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	8971			•	•				
0.0 ft.	Water Level				10				
1.6 ft.	Infiltration Stain				0		12		
23.7 ft.	Tap Factory Made Active		6		0		9		
36.4 ft.	Tap Factory Made Active		6		0		10		
48.2 ft.	Tap Factory Made Active		6		0		3		
48.2 ft.	Tap Factory Made Active		6		0		9		
73.7 ft.	Tap Factory Made Active		6		0		9		
99.4 ft.	Tap Factory Made Active		6		0		3		
99.4 ft.	Deposits Attached Encrustation				10		3		2
99.4 ft.	Tap Factory Made Active		6		0		9		
123.9 ft.	Tap Factory Made Active		6		0		9		
147.3 ft.	Tap Factory Made Active		6		0		3		
147.3 ft.	Tap Factory Made Active		6		0		9		
147.3 ft.	Deposits Attached Encrustation				10		9		2
151.8 ft.	Deposits Attached Encrustation				10		9		2
173.3 ft.	Tap Factory Made Active		6		0		10		
173.3 ft.	Deposits Attached Encrustation				10		10		2
195.8 ft.	Tap Factory Made Active		6		0		3		
197.1 ft.	Tap Factory Made Active		6		0		9		
205.0 ft.	Access Point Manhole				0				
Remarks:	8970	•							



Pipe Segme	ent Refere	C	City	Street	Mat	erial	Location C	Sewer Use		
28	599	Worce	ster MA	Quinsigamond ave	Br	ick	Light High	Combined		
Upstre	am MH	Total	Length	Year Laid	Sh	ape	Location	n Details		
89	71	2	05		Circ	ular				
DS Ma	anhole	Length	surveyed	Year Renewed	Height	Width	Pipe Joint			
89	70	2	05		48	48				
SPR	SPR N/A		8	PO Number			Customer			
CDDI	NI/A	MDDI	•	-		v	eston & Sampson			
SPRI	N/A	MPRI	2	Work Order			Purpose			
QSR	N/A	QMR	2400			Capital Ir	mprovement Program As			
OI	PR .	Surve	eyed By	Direction	Da	ate Media label		a label		
	3	D_Me	essier	Downstream	2016	0630				
OF	PRI	Certificat	te Number	Pre-Cleaning	Ti	me	Weather			
:	2	U-214-0	06019237	Heavy Cleaning	12	:17	Dry			
		Date 0	Cleaned		End	Time	Additio	nal Info		
	20160630				14	·13				



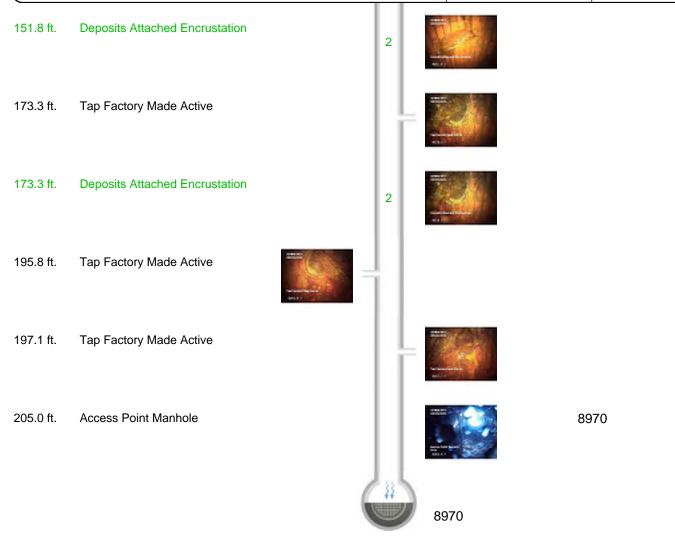


Pipe Segme	nt Refere	С	ity	Street	Mat	erial	Location C	Sewer Use		
285	99	Worces	ster MA	Quinsigamond ave	Br	ick	Light High	Combined n Details		
Upstrea	ım MH	Total I	Length	Year Laid	Sha	ape	Location	Location Details		
897	8971		05		Circ	ular		5:		
DS Ma	nhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint			
897	70	20	05		48	48	Customer			
SPR	PR N/A MPR 8 PO Number			Customer	Customer					
CDDI	NI/A	MDDI	2			v	eston & Sampson Purpose			
SPRI	N/A	MPRI	2	Work Order						
QSR	N/A	QMR	2400			Capital Ir	nprovement Pro	ogram As		
OP	R	Surve	yed By	Direction	Da	ate	Media	a label		
8		D_Me	essier	Downstream	2016	0630				
OP	RI	Certificate	e Number	Pre-Cleaning	Tir	me	Weather			
2	2		6019237	Heavy Cleaning	12	:17	Dry			
	•	Date C	leaned		End	Time	Additio	nal Info		
			0630		14	:13				





Pipe Segment Refere		City		Street	Material		Location C	Sewer Use	
28599		Worcester MA		Quinsigamond ave	Brick		Light High	Combined	
Upstream MH		Total Length		Year Laid	Shape		Location Details		
8971		205			Circular				
DS Manhole		Length surveyed		Year Renewed	Height	Width	Pipe Joint		
8970		205			48	48			
SPR	N/A	MPR	8	PO Number			Customer		
SPRI	N/A	MPRI	2	1			Weston & Sampson		
OI KI	11//	WII 13.1 Z		Work Order		Purpose			
QSR	N/A	QMR	2400	1		Capital Improvement Program As			
OPR		Surveyed By		Direction	Date		Media label		
8		D_Messier		Downstream	20160630				
OPRI		Certificate Number		Pre-Cleaning	Time		Weather		
2		U-214-06019237		Heavy Cleaning	12:17		Dry		
Date Cleaned					End Time		Additional Info		
	20160630					14:13			





Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28599	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8971	205		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8970	205		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 8971



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 1.6 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 23.7 ft. Grade: 0

Condition: Tap Factory Made Active



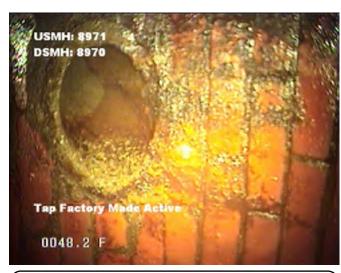
Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28599	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8971	205		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8970	205		48	48		



Distance: 36.4 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 48.2 ft. Grade:

Condition: Tap Factory Made Active

Remarks: N/A



Distance: Grade: Condition: Tap Factory Made Active

Remarks: N/A



Distance: 73.7 ft. Grade:

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28599	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8971	205		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8970	205		48	48		



Distance: 99.4 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 99.4 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 99.4 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 123.9 ft. Grade: 0

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28599	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8971	205		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8970	205		48	48		



Distance: 147.3 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



147.3 ft. Distance: Grade:

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: 147.3 ft. Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: Grade: Condition: Deposits Attached Encrustation



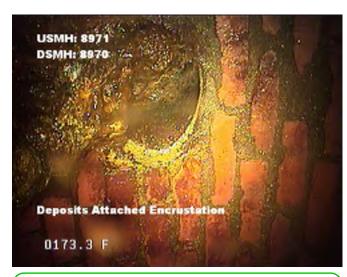
Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
28599	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8971	205		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
8970	205		48	48		



Distance: 173.3 ft. Grade: Condition:

Tap Factory Made Active

Remarks: N/A



173.3 ft. Grade: Distance: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 195.8 ft. Grade: Condition: Tap Factory Made Active

Remarks: N/A



Distance: 197.1 ft. Grade: Condition:

Tap Factory Made Active

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Image Report 4/Page

401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	28599	Worcester MA	Quinsigamond ave	Brick		Light High	Combined
Г	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	8971	205		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
(8970	205		48	48		/



Distance: 205.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 8970

Project Information

Project Name:	Project Number:	Date:
WS WORCESTER WI		



Contractor	Inland Waters Inc.
Responsible:	Peter Hochard
Department:	Field Superintendent
Street:	275 Scituate Ave
City:	Johnston
Telephone:	401-943-5302
Fax:	401-943-5714
Mobile:	401-265-3221
EMail:	peter@inlandwatersinc.com

Notes:		

Inland Waters Inc. 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing

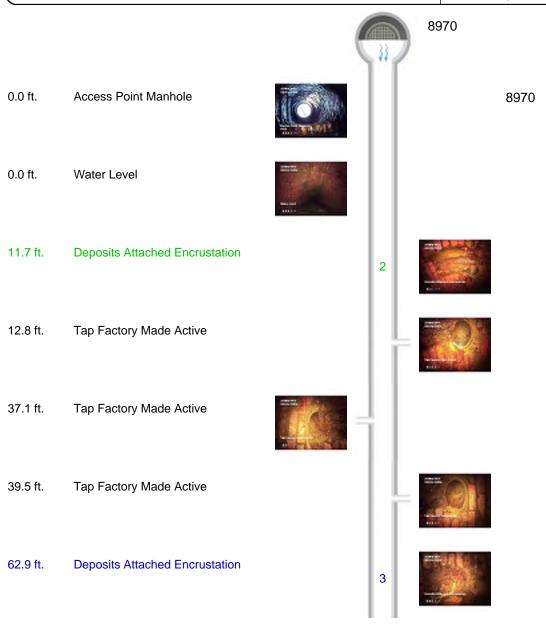
Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use
190)63	Worces	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstrea	am MH	Total	Length	Year Laid	Shape		Location	n Details
89	70	19	97		Circ	ular		
DS Ma	anhole	Length :	surveyed	Year Renewed	Height	Height Width		
194	194	19	97		48	48		
SPR	N/A	MPR	15	PO Number		Customer		
CDDI	NI/A	MDDI	0.4		\ \		Weston Sampson	
SPRI	N/A	MPRI	2.1	Work Order			Purpose	
QSR	N/A	QMR	3126			Capital Ir	nprovement Program As	
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label
1:	5	D_Me	essier	Downstream	2016	0701		
OP	rRI	Certificat	e Number	Pre-Cleaning	Tir	me	Weather	
2.	1	U-214-0	6019237	Heavy Cleaning	09:45		Dry	
		Date C	Cleaned		End	Time Additional Info		nal Info
					10:12			

Distance	Condition	Cont. Dfct.		Values		Joint	Clock Position		Grade
Distance	Condition	Cont. Dict.	1st	2nd	%	Joint	At/From	То	Grade
0.0 ft.	Access Point Manhole				0				
Remarks:	8970			•					
0.0 ft.	Water Level				15				
11.7 ft.	Deposits Attached Encrustation				5		9		2
12.8 ft.	Tap Factory Made Active		6		0		9		
37.1 ft.	Tap Factory Made Active		6		0		3		
39.5 ft.	Tap Factory Made Active		6		0		9		
62.9 ft.	Deposits Attached Encrustation				15		9		3
64.7 ft.	Tap Factory Made Active		6		0		9		
84.2 ft.	Tap Factory Made Active		6		0		12		
87.7 ft.	Tap Factory Made Capped		6		0		3		
102.7 ft.	Deposits Attached Encrustation				5		8		2
129.5 ft.	Infiltration Stain				0		3		
140.3 ft.	Tap Factory Made Capped		6		0		9		
140.7 ft.	Tap Factory Made Active		6		0		3		
181.1 ft.	Infiltration Stain				0		3		
181.2 ft.	Infiltration Weeper				0		8		2
186.9 ft.	Deposits Attached Encrustation				10		4		2
187.6 ft.	Deposits Attached Encrustation				5		8		2
190.9 ft.	Deposits Attached Encrustation				5		4		2
197.0 ft.	Access Point Manhole				0				
Remarks:	19494							•	•



Defect Listing Plot with Images

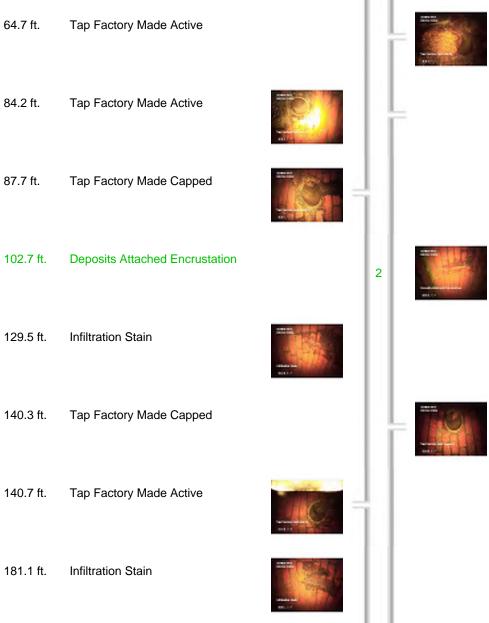
Pipe Segme	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use
190	063	Worce	ster MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstre	am MH	Total	Length	Year Laid	Shape		Location	Details
89	70	19	97		Circular			
DS Ma	anhole	Length s	surveyed	Year Renewed	Height Width		Pipe Joint	
194	194	19	97		48	48		
SPR	N/A	MPR	15	PO Number		Customer		
0001	NI/A	MADDI	0.4	-		Weston Samp		n
SPRI	N/A	MPRI	2.1	Work Order			Purpose	
QSR	N/A	QMR	3126			Capital II	mprovement Pro	gram As
O	PR	Surve	yed By	Direction	Da	ate	Media	alabel
1	5	D_Me	essier	Downstream	2016	0701		
OF	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather	
2	.1	U-214-0	6019237	Heavy Cleaning	09:45		Dry	
		Date C	Cleaned		End	Time	me Additional Info	
					10:12			

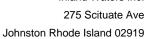




Defect Listing Plot with Images

Pipe Segme	e Segment Refere City Street Material		Location C	Sewer Use					
190	63	Worces	ster MA	Quinsigamond Ave	Brick Shape Circular		Light High	Combined	
Upstrea	am MH	Total I	Length	Year Laid			Location Details		
89	70	19	97						
DS Ma	ınhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint		
194	94	19	97		48	48			
SPR	N/A	MPR	15	PO Number		Customer			
CDDI	NI/A	MDDI	0.4	-			Weston Sampso	on	
SPRI	N/A	MPRI	2.1	Work Order			Purpose	Purpose	
QSR	N/A	QMR	3126			Capital II	nprovement Pro	gram As	
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label	
1	5	D_Me	essier	Downstream	2016	0701			
OP	RI	Certificat	e Number	Pre-Cleaning	Time		Weather		
2.	1	U-214-0	6019237	Heavy Cleaning	09	:45	Dry		
		Date C	leaned		End	Time	Additio	nal Info	
					10:	:12			







Defect Listing Plot with Images

Pipe Segme	nt Refere	С	ity	Street	Material Brick		Location C	Sewer Use
190	63	Worces	ster MA	Quinsigamond Ave			Light High	Combined
Upstrea	am MH	Total I	Length	Year Laid	Sha	ape	Location	n Details
89	70	19	97		Circ	ular		
DS Ma	inhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
194	94	19	97		48	48		
SPR	N/A	MPR	15	PO Number			Customer	
CDDI	NI/A	MDDI	2.4	-		Weston Sampson		on
SPRI	N/A	MPRI	2.1	Work Order	'		Purpose	
QSR	N/A	QMR	3126				nprovement Pro	vement Program As
OF	PR	Surve	yed By	Direction	Da	ate	Media	a label
1:	5	D_Me	essier	Downstream	20160701			
OP	RI	Certificat	e Number	Pre-Cleaning	Time		Weather	
2.	1	U-214-0	6019237	Heavy Cleaning	09:45		Dry	
			leaned		End	Time	Additio	nal Info
					10:	:12		_

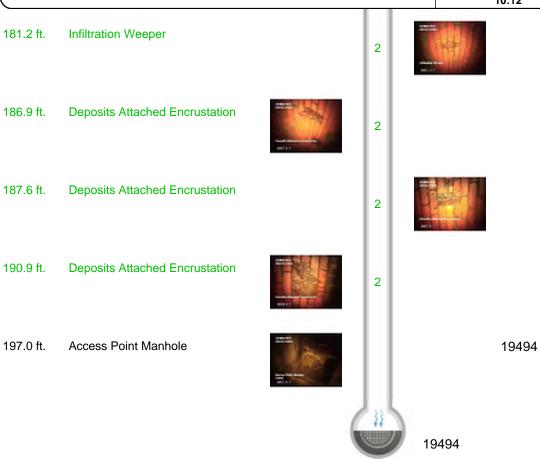




Image R

401-943-5302

Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
19063	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8970	197		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
19494	197		48	48		



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 8970



Distance: Grade: 0.0 ft. 0

Condition: Water Level

Remarks: N/A



Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: Grade: 0

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
19063	Worcester MA	Quinsigamond Ave	Brick		Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8970	197		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
19494	197		48	48		



Distance: Grade: Condition:

Tap Factory Made Active

Remarks: N/A



Distance: 39.5 ft. Grade:

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 64.7 ft. Grade:

Condition: Tap Factory Made Active



Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
19063	Worcester MA	Quinsigamond Ave	Br	ick	Light High	Combined
Upstream MH	Total Length	Year Laid	Shape		Location Details	
8970	197		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
19494	197		48	48		



Distance: 84.2 ft. **Grade**: 0 **Condition**: Tap Factory Made Active

Remarks: N/A



Distance: 87.7 ft. **Grade**: (**Condition**: Tap Factory Made Capped

Remarks: N/A



Distance: 102.7 ft. **Grade**: 2 **Condition**: Deposits Attached Encrustation

Remarks: N/A



Distance: 129.5 ft. Grade: 0

Condition: Infiltration Stain



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	19063	Worcester MA	Worcester MA Quinsigamond Ave Brick		Light High	Combined	
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	8970	197		Circular			
Γ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(19494	197		48	48		



Distance: 140.3 ft. **Grade**: 0 **Condition**: Tap Factory Made Capped

Remarks: N/A



Distance: 140.7 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 181.1 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 181.2 ft. Grade: 2

Condition: Infiltration Weeper



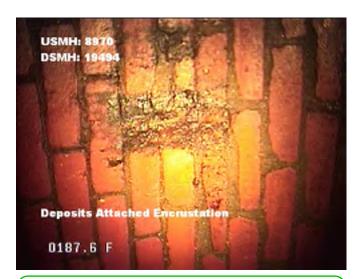
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Street	Material	Location C	Sewer Use				
Quinsigamond Ave	Brick	Light High	Combined				
Year Laid	Shape	Location	Details				
	Circular						





Distance: 186.9 ft. Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



187.6 ft. Distance: Grade: Condition: Deposits Attached Encrustation

Remarks: N/A



Distance: Grade: Condition: **Deposits Attached Encrustation**

Remarks: N/A



Distance: 197.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 19494