



www.gp-radar.com

Site Name and Location:

Water Tower Recreation Center
209 E Hartwell Ln
Philadelphia, PA

Assumptions & Clarifications

- UNLESS OTHERWISE NOTED UNDERGROUND UTILITY DATA IS CONSIDERED QUALITY LEVEL B (QLB) AS DEFINED IN ASCE 38-02: STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA AND IS INTENDED TO SHOW THE APPROXIMATE HORIZONTAL LOCATIONS OF EXISTING UNDERGROUND UTILITIES AS MARKED BY MASTER LOCATORS DURING A GEOPHYSICAL INVESTIGATION PERFORMED WITHIN THE OUTLINED SCOPE OF WORK.
- ALL UTILITY LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. THIS PLAN SHOULD NOT BE USED FOR CONSTRUCTION OR DESIGN PURPOSES AND MASTER LOCATORS IS NOT RESPONSIBLE FOR DAMAGE TO UTILITIES RESULTING FROM ANY CONSTRUCTION WORK BASED ON THESE PLAN.
- NO BOUNDARY OR PROPERTY SURVEY WORK WAS CONDUCTED IN THE DEVELOPMENT OF THIS PLAN. THE PLAN IS NOT DRAWN TO SCALE.
- ANY DEPTH INFORMATION PROVIDED IS CONSIDERED APPROXIMATE AND IS NOT GUARANTEED UNLESS LABELED AS QUALITY LEVEL A (QLA) DATA.

Legend & Color Codes

Electric	Unknown	Water
Comms.	Storm	Sanitary
Gas		

MH	Valve	Continuation Mark	End of Information	Scope of Work
B	Utility Pole	Clean Out	Storm Drain	Roof Drain
FD	Test Hole	Fire Hydrant	Irrigation Box	
SL	Transformer	Electric Box	Phone Pedestal	
>	Flow Direction	Buried Vault	Witness Post	

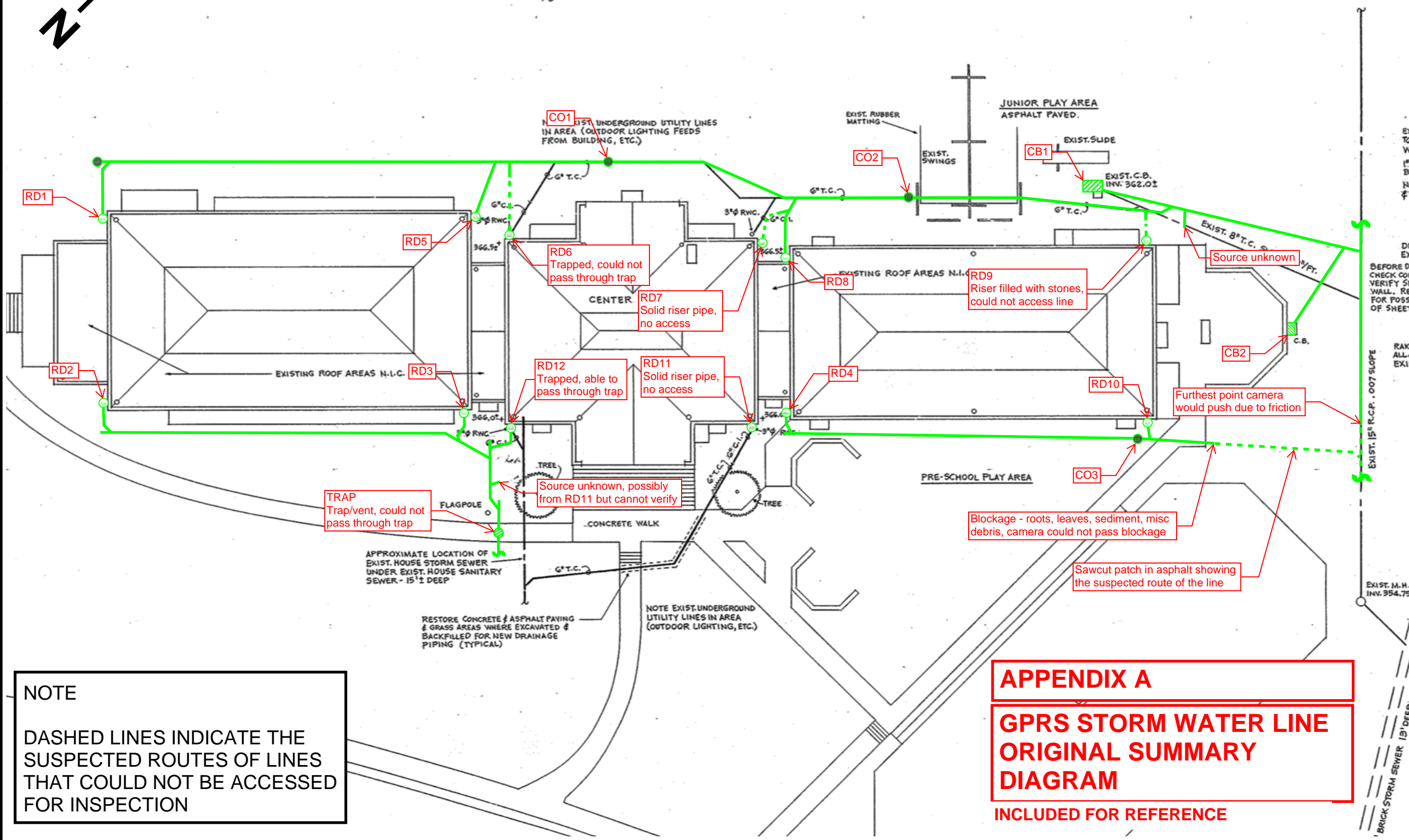
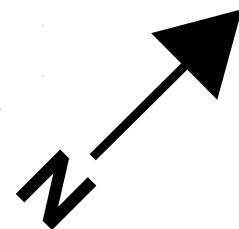
Revisions:

Date:	Description:	By:

ML Job #: _____
 Date: 11/3/2022
 Technician(s): Stew Eleftheriou
 Client Name: SMP Architects

FRONT ELEVATION (EAST)

SCALE: 1/8" = 1'-0"



NOTE
 DASHED LINES INDICATE THE SUSPECTED ROUTES OF LINES THAT COULD NOT BE ACCESSED FOR INSPECTION

APPENDIX A
GPRS STORM WATER LINE ORIGINAL SUMMARY DIAGRAM
INCLUDED FOR REFERENCE



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Legend of Classification (Section)

Project Name
WATER TOWER REC STORM VPI

Project Date
11/5/2022

5: Immediate Attention

Defects require immediate attention- Pipe has failed or will likely fail within the next 5 years or sooner.

4: Poor Condition

Severe Defects that will become Grade 5 defects within the foerseeable future- Pipe will probably fail in 5-10 years

2: Good Condition

Defects that have not begun to deteriorate- Pipe unlikely to fail for at least 20 years.

1: Excellent Condition

Minor Defects- Failure unlikley in the foreseeable future

3: Fair Condition

Moderate defects that will continue to deteriorate- Pipe may fail in 10-20 years.

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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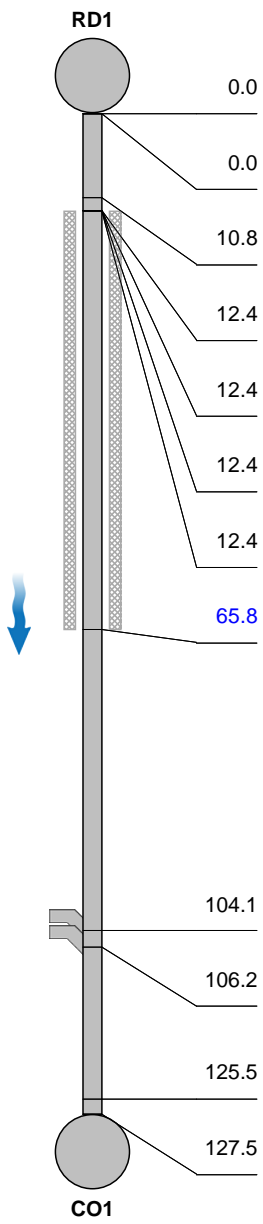
Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD1-CO1
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 127.5'	Length Surveyed: 127.5'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD1
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CO1
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:963	Distance	Code	Observation	Counter	Photo	Grade
	0.0	AZ	Access Point Other / RD1	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2	
	10.8	MGO	Miscellaneous General Observation / WYE RIGHT	00:00:29	3	
	12.4	MGO	Miscellaneous General Observation / TIES INTO MAIN	00:01:02	4	
	12.4	MMC	Miscellaneous Material Change, Vitrified clay pipe / TERRA COTTA MAIN	00:01:02	5	
	12.4	MSC	Miscellaneous Shape or Size Change, dia/height: 6inch / 6 INCH MAIN	00:01:02	6	
	12.4 S01	DSF	Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:01:02	7	
	65.8 F01	DSF	Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:03:02	8	M2
	104.1	TF	Tap Factory Made at 3 o'clock, dia/height: 4inch	00:04:24	9	
	106.2	TF	Tap Factory Made at 2 o'clock, dia/height: 4inch	00:04:38	10	
	125.5	MSC	Miscellaneous Shape or Size Change, dia/height: 8inch / INCREASE TO 8 INCH PIPE	00:05:17	11	
	127.5	ACOM	Cleanout Mainline / CO1	00:05:47	12	





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Section Pictures - 11/3/2022 - RD1-CO1

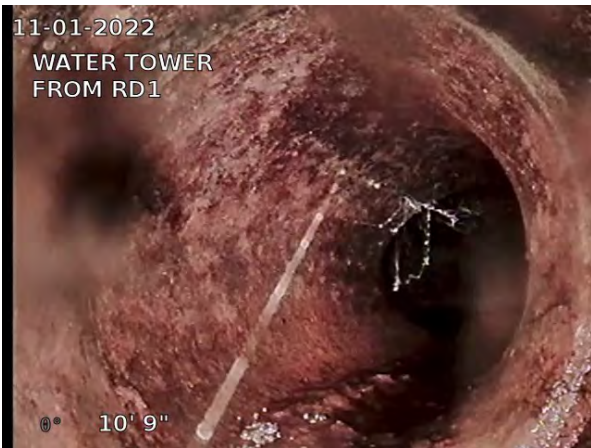
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD1-CO1	1



1, 00:00:00, 0.00ft
 Access Point Other / RD1



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:29, 10.75ft
 Miscellaneous General Observation / WYE RIGHT



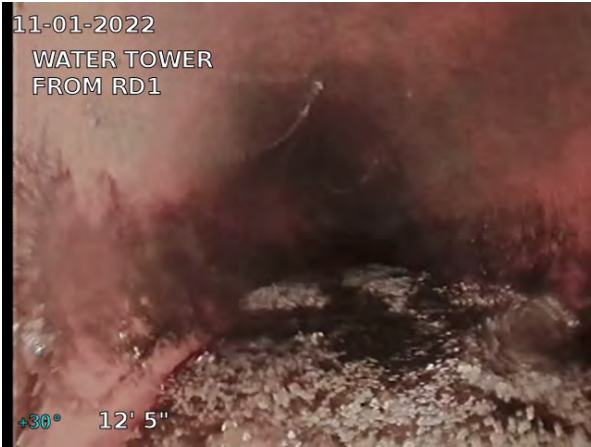
4, 00:01:02, 12.42ft
 Miscellaneous General Observation / TIES INTO MAIN



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Section Pictures - 11/3/2022 - RD1-CO1

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD1-CO1	1



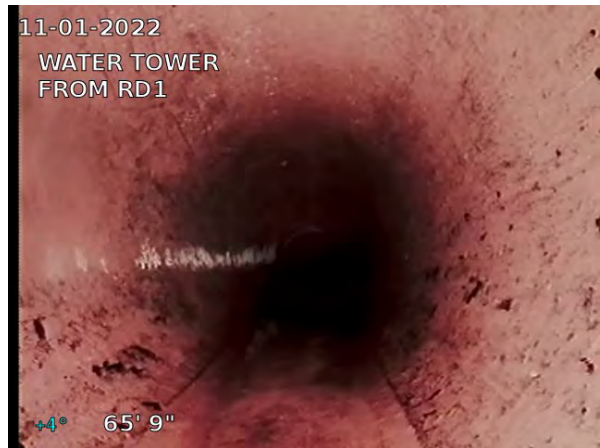
5, 00:01:02, 12.42ft
 Miscellaneous Material Change, Vitrified clay pipe / TERRA COTTA MAIN



6, 00:01:02, 12.42ft
 Miscellaneous Shape or Size Change, dia/height: 6inch / 6 INCH MAIN



7, 00:01:02, 12.43ft
 Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



8, 00:03:02, 65.75ft
 Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



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Section Pictures - 11/3/2022 - RD1-CO1

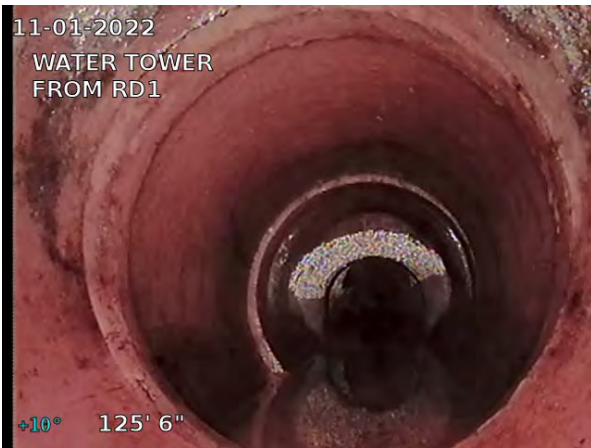
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD1-CO1	1



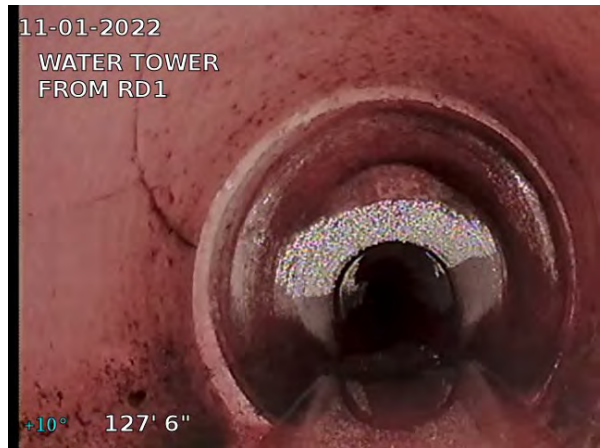
9, 00:04:24, 104.08ft
 Tap Factory Made at 3 o'clock, dia/height: 4inch



10, 00:04:38, 106.16ft
 Tap Factory Made at 2 o'clock, dia/height: 4inch



11, 00:05:17, 125.50ft
 Miscellaneous Shape or Size Change, dia/height: 8inch / INCREASE TO 8 INCH PIPE



12, 00:05:47, 127.50ft
 Cleanout Mainline / CO1

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: CO1-CO2
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 70.8'	Length Surveyed: 70.8'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: CO1
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: CO2
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 8"	Sewer Category: SEC	Joints passed: 0
Pipe material: Vitrified Clay Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

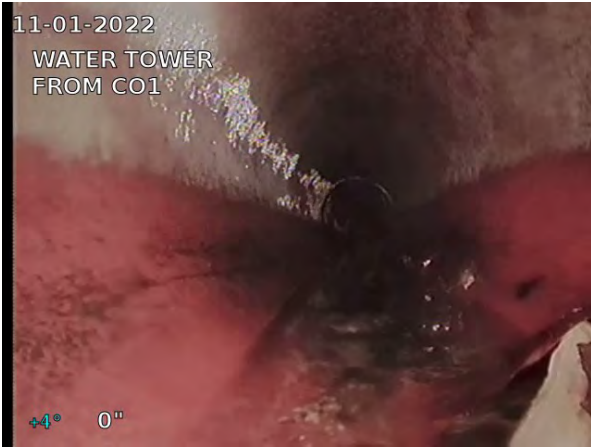
	1:535 Distance	Code	Observation	Counter	Photo	Grade
	0.0	ACOM	Cleanout Mainline / CO1	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2	
	27.1	MGO	Miscellaneous General Observation / LINE ANGLES RIGHT	00:00:51	3	
	29.2	S01 DSF	Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:01:01	4	
	37.1	MGO	Miscellaneous General Observation / SMALL TREE BRANCH BEING DRAGGED BY CAMERA	00:01:21	5	
	43.3	MGO	Miscellaneous General Observation / LINE ANGLES LEFT	00:01:46	6	
	44.9	TF	Tap Factory Made at 3 o'clock, dia/height: 4inch	00:01:54	7	
	51.5	F01 DSF	Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:02:15	8	M2
	70.8	OBC	Obstruction Through Connection, 5% of cross sectional area at 12 o'clock / SMALL BRANCH WEDGED AT CLEANOUT	00:02:47	9	M2
	70.8	ACOM	Cleanout Mainline / CO2	00:02:47	10	



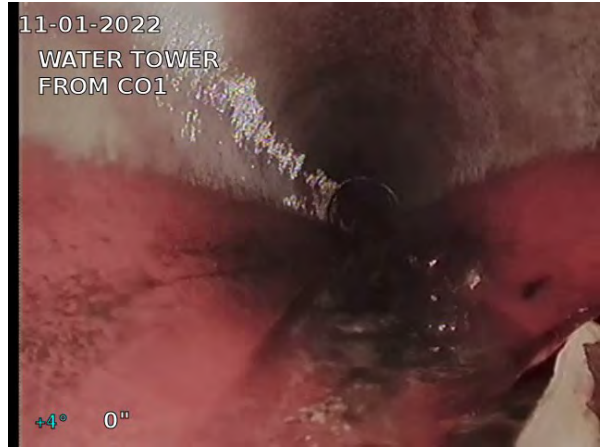
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Section Pictures - 11/3/2022 - CO1-CO2

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CO1-CO2	2



1, 00:00:00, 0.00ft
 Cleanout Mainline / CO1



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:51, 27.08ft
 Miscellaneous General Observation / LINE ANGLES RIGHT



4, 00:01:01, 29.16ft
 Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



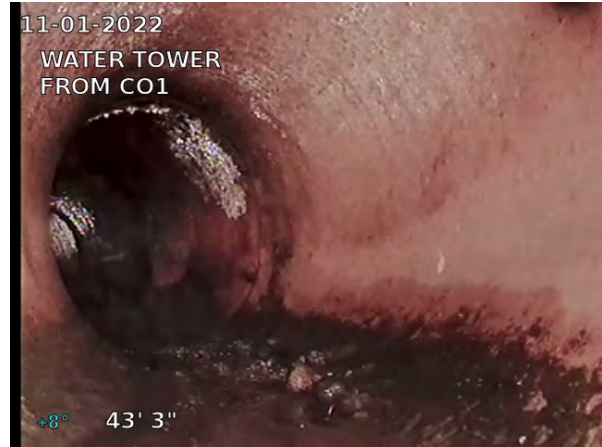
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Section Pictures - 11/3/2022 - CO1-CO2

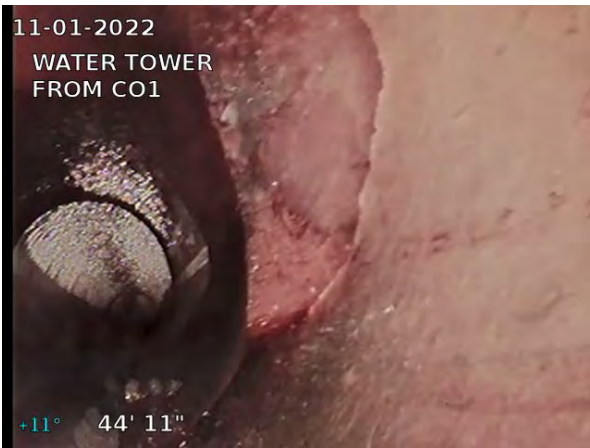
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CO1-CO2	2



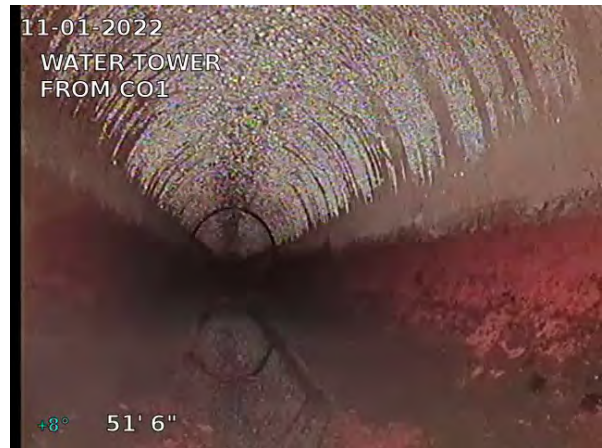
5, 00:01:21, 37.08ft
 Miscellaneous General Observation / SMALL TREE BRANCH BEING DRAGGED BY CAMERA



6, 00:01:46, 43.25ft
 Miscellaneous General Observation / LINE ANGLES LEFT



7, 00:01:54, 44.92ft
 Tap Factory Made at 3 o'clock, dia/height: 4inch



8, 00:02:15, 51.50ft
 Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



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Section Pictures - 11/3/2022 - CO1-CO2

City PHILADELPHIA, PA	Street 209 E HARTWELL LN	Date 11/3/2022	Pipe Segment Reference CO1-CO2	Section No. 2
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9, 00:02:47, 70.84ft
Obstruction Through Connection, 5% of cross sectional area at
12 o'clock / SMALL BRANCH WEDGED AT CLEANOUT



10, 00:02:47, 70.84ft
Cleanout Mainline / CO2



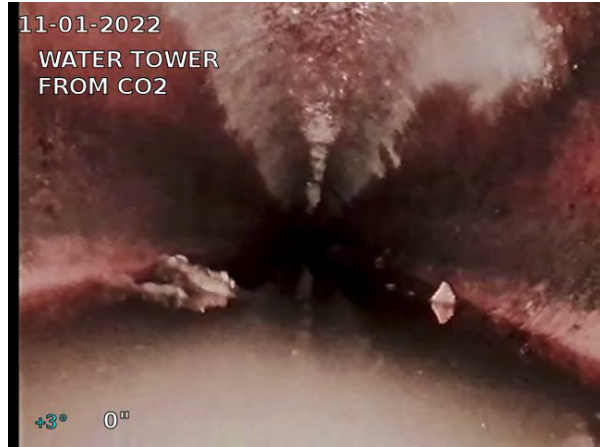
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Section Pictures - 11/3/2022 - CO2-DOWNSTREAM

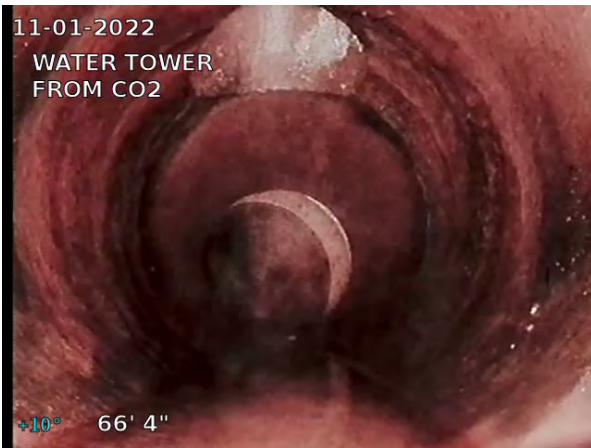
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CO2-DOWNSTREAM	3



1, 00:00:00, 0.00ft
 Cleanout Mainline / CO2



2, 00:00:00, 0.00ft
 Water Level, 5% of the vertical dimension



3, 00:01:50, 66.33ft
 Tap Factory Made at 12 o'clock, dia/height: 4inch



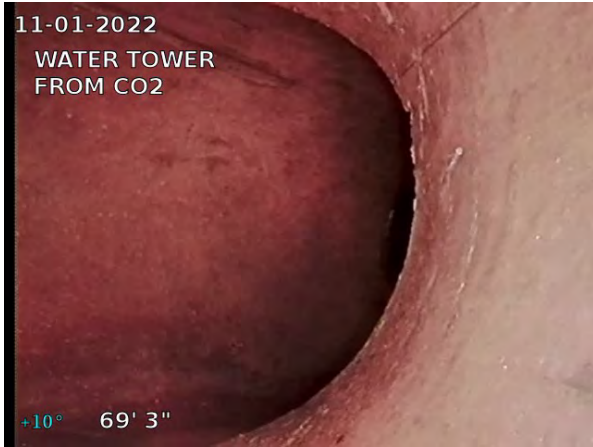
4, 00:02:02, 67.00ft
 Miscellaneous General Observation / LINE ANGLES LEFT



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Section Pictures - 11/3/2022 - CO2-DOWNSTREAM

City PHILADELPHIA, PA	Street 209 E HARTWELL LN	Date 11/3/2022	Pipe Segment Reference CO2-DOWNSTREAM	Section No. 3
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5, 00:02:17, 69.25ft
Tee Connection / TIES INTO MAIN FROM CB1

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: CB1-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 102.0'	Length Surveyed: 102.0'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: CB1
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 8"	Sewer Category: SEC	Joints passed: 0
Pipe material: Vitrified Clay Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

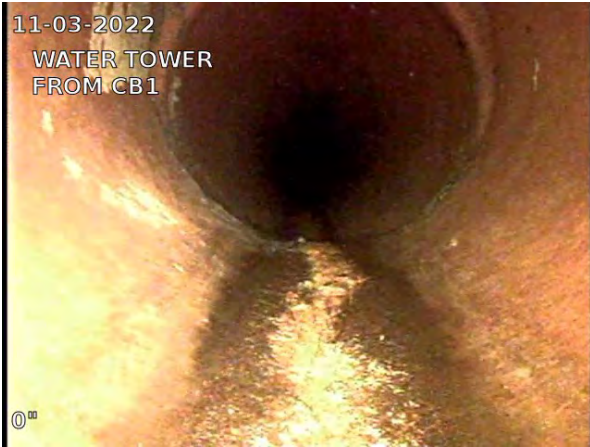
1:770	Distance	Code	Observation	Counter	Photo	Grade		
	0.0	ACB	Catch Basin / CB1	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	20.6	TF	Tap Factory Made at 3 o'clock, dia/height: 8inch	00:00:34	3			
	22.5	TF	Tap Factory Made at 3 o'clock, dia/height: 6inch	00:00:47	4			
	57.8	TF	Tap Factory Made at 3 o'clock, dia/height: 8inch	00:01:45	5			
	66.3	MGO	Miscellaneous General Observation / TIES INTO 15 INCH MAIN	00:02:01	6			
	67.3	MSC	Miscellaneous Shape or Size Change, dia/height: 15inch / TIES INTO 15 INCH MAIN	00:02:03	7			
	69.8	MWL	Water Level, 10% of the vertical dimension	00:02:07	8			
	77.2	S01 MCU	Miscellaneous Camera Underwater, Start	00:02:15	9			
	91.7	F01 MCU	Miscellaneous Camera Underwater, Finish	00:02:47	10	M4		
	102.0	MSA	Miscellaneous Survey Abandoned / CAMERA WOULD NOT PUSH FURTHER DUE TO FRICTION	00:03:52	11			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	4300	4300	0.0	12.0	12.0	0.0	4.0	4.0



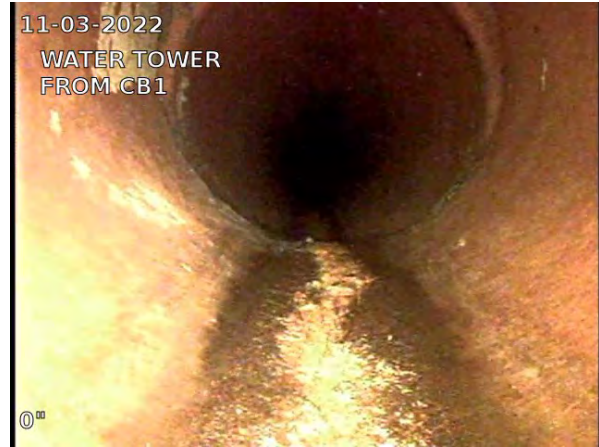
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Section Pictures - 11/3/2022 - CB1-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CB1-DOWNSTREAM	4



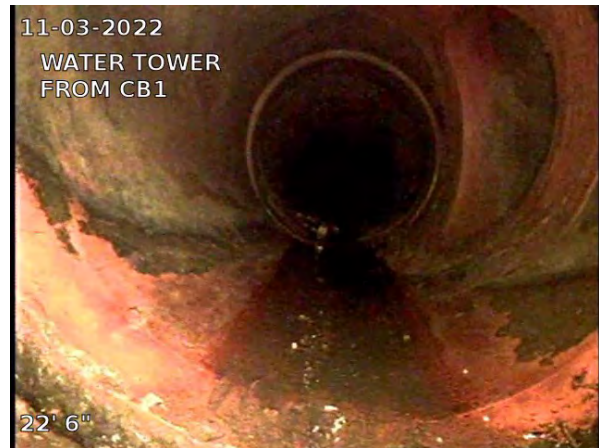
1, 00:00:00, 0.00ft
 Catch Basin / CB1



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:34, 20.58ft
 Tap Factory Made at 3 o'clock, dia/height: 8inch



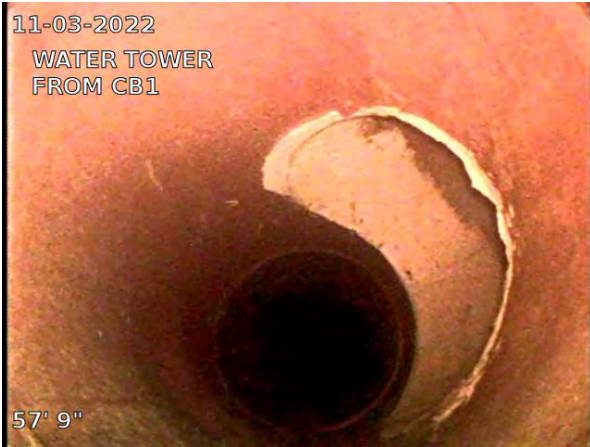
4, 00:00:47, 22.50ft
 Tap Factory Made at 3 o'clock, dia/height: 6inch



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Section Pictures - 11/3/2022 - CB1-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CB1-DOWNSTREAM	4



5, 00:01:45, 57.75ft
 Tap Factory Made at 3 o'clock, dia/height: 8inch



6, 00:02:01, 66.33ft
 Miscellaneous General Observation / TIES INTO 15 INCH MAIN



7, 00:02:03, 67.25ft
 Miscellaneous Shape or Size Change, dia/height: 15inch / TIES INTO 15 INCH MAIN



8, 00:02:07, 69.84ft
 Water Level, 10% of the vertical dimension



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Section Pictures - 11/3/2022 - CB1-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CB1-DOWNSTREAM	4



11-03-2022
 WATER TOWER
 FROM CB1
 77' 2"
 9, 00:02:15, 77.16ft
 Miscellaneous Camera Underwater, Start



11-03-2022
 WATER TOWER
 FROM CB1
 91' 8"
 10, 00:02:47, 91.67ft
 Miscellaneous Camera Underwater, Finish



11-03-2022
 WATER TOWER
 FROM CB1
 102' 0"
 11, 00:03:52, 102.00ft
 Miscellaneous Survey Abandoned / CAMERA WOULD NOT
 PUSH FURTHER DUE TO FRICTION

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: CB2-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 11.3'	Length Surveyed: 11.3'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: CB2
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 8"	Sewer Category: SEC	Joints passed: 0
Pipe material: Vitrified Clay Pipe	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

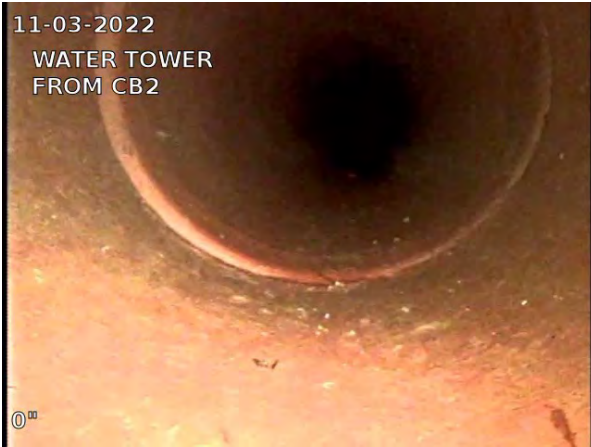
	1:86 Distance	Code	Observation	Counter	Photo	Grade		
	0.0	ACB	Catch Basin / CB2	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	10.4	JSL	Joint Separated Large, 1Inch, 1Inch / SEPERATION AT JOINT	00:00:24	3, 4	S4		
	11.3	ATC	Tee Connection / TIES INTO MAIN FROM CB1	00:00:44	5			
DOWNSTREAM								
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
4100	0000	4100	4.0	0.0	4.0	4.0	0.0	4.0



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Section Pictures - 11/3/2022 - CB2-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CB2-DOWNSTREAM	5



1, 00:00:00, 0.00ft
 Catch Basin / CB2



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:24, 10.42ft
 Joint Separated Large, 1Inch, 1Inch / SEPERATION AT JOINT



4, 00:00:24, 10.42ft
 Joint Separated Large, 1Inch, 1Inch / SEPERATION AT JOINT



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Section Pictures - 11/3/2022 - CB2-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CB2-DOWNSTREAM	5



5, 00:00:44, 11.33ft
Tee Connection / TIES INTO MAIN FROM CB1

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 Tel. 267-972-7243

Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD2-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 95.3'	Length Surveyed: 95.3'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD2
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:719	Distance	Code	Observation	Counter	Photo	Grade		
RD2								
	0.0	AZ	Access Point Other / RD2	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	1.7	MGO	Miscellaneous General Observation / WYE LEFT INTO 6 INCH MAIN	00:00:14	3			
	3.1	MSC	Miscellaneous Shape or Size Change, dia/height: 6inch / 6 INCH MAIN	00:00:22	4			
	16.8	MGO	Miscellaneous General Observation / LINE ANGLES DOWNWARD	00:00:48	5			
	19.9	MGO	Miscellaneous General Observation / LINE LEVELS OUT	00:00:56	6			
	28.5	S01 DSF	Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:01:09	7			
	83.6	MGO	Miscellaneous General Observation / LINE ANGLES RIGHT	00:02:18	8			
	83.6	F01 DSF	Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:02:18	9	M2		
	89.3	TF	Tap Factory Made at 9 o'clock, dia/height: 4inch	00:02:46	10			
	90.3	MMC	Miscellaneous Material Change, Vitrified clay pipe / CHANGE TO VCP	00:02:57	11			
	95.3	ATC	Tee Connection / TIES INTO MAIN	00:03:09	12			
DOWNSTREAM								
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	2A00	2A00	0.0	22.0	22.0	0.0	2.0	2.0



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Section Pictures - 11/3/2022 - RD2-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD2-DOWNSTREAM	6



1, 00:00:00, 0.00ft
 Access Point Other / RD2



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:14, 1.67ft
 Miscellaneous General Observation / WYE LEFT INTO 6 INCH MAIN



4, 00:00:22, 3.08ft
 Miscellaneous Shape or Size Change, dia/height: 6inch / 6 INCH MAIN



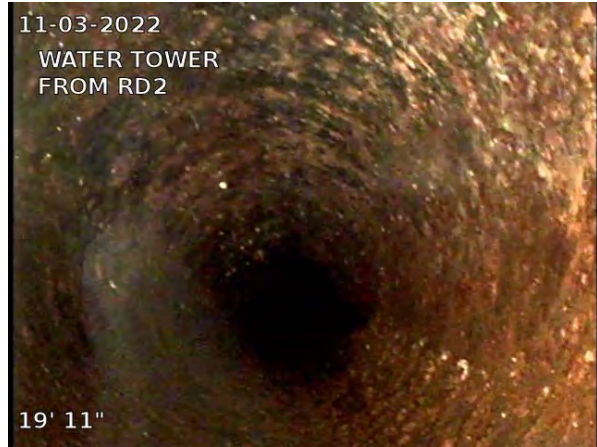
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Section Pictures - 11/3/2022 - RD2-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD2-DOWNSTREAM	6



5, 00:00:48, 16.84ft
 Miscellaneous General Observation / LINE ANGLES DOWNWARD



6, 00:00:56, 19.92ft
 Miscellaneous General Observation / LINE LEVELS OUT



7, 00:01:09, 28.50ft
 Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



8, 00:02:18, 83.58ft
 Miscellaneous General Observation / LINE ANGLES RIGHT



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Section Pictures - 11/3/2022 - RD2-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD2-DOWNSTREAM	6



9, 00:02:18, 83.58ft
 Deposits Settled Fine, 5% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



10, 00:02:46, 89.33ft
 Tap Factory Made at 9 o'clock, dia/height: 4inch



11, 00:02:57, 90.25ft
 Miscellaneous Material Change, Vitrified clay pipe / CHANGE TO VCP



12, 00:03:09, 95.25ft
 Tee Connection / TIES INTO MAIN

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



Stew Eleftheriou
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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD3-TRAP
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 37.9'	Length Surveyed: 37.9'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD3
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: TRAP
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:287 Distance	Code	Observation	Counter	Photo	Grade		
RD3								
	0.0	AZ	Access Point Other / RD3	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	2.7	MGO	Miscellaneous General Observation / LINE ANGLES RIGHT	00:00:09	3			
	12.8	MGO	Miscellaneous General Observation / WYE LEFT	00:00:41	4			
	13.8	MGO	Miscellaneous General Observation / TIES INTO 6 INCH MAIN FROM RD2	00:00:46	5			
	15.4	MSC	Miscellaneous Shape or Size Change, dia/height: 6inch / TIED INTO 6 INCH MAIN	00:00:49	6			
	15.4	MMC	Miscellaneous Material Change, Vitrified clay pipe / CHANGE TO VCP	00:00:49	7			
	20.8	MGO	Miscellaneous General Observation / WYE RIGHT INTO 8 INCH MAIN	00:01:09	8			
	20.8	MSC	Miscellaneous Shape or Size Change, dia/height: 8inch / TIES INTO 8 INCH MAIN	00:01:09	9			
	27.1	TF	Tap Factory Made at 10 o'clock, dia/height: 6inch	00:01:43	10			
	28.7	MSC	Miscellaneous Shape or Size Change, dia/height: 6inch / REDUCES TO 6 INCH PIPE	00:02:01	11			
	28.7	MMC	Miscellaneous Material Change, Cast iron / CHANGE TO CIP	00:02:01	12			
	33.8	MGO	Miscellaneous General Observation / LINE ANGLES LEFT	00:02:16	13			
	35.5	MGO	Miscellaneous General Observation / WYE RIGHT	00:02:26	14			
TRAP	37.9	AZ	Access Point Other / TRAP	00:03:24	15			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0000	0.0	0.0	0.0	0.0	0.0	0.0



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Section Pictures - 11/3/2022 - RD3-TRAP

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD3-TRAP	7



1, 00:00:00, 0.00ft
 Access Point Other / RD3



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:09, 2.67ft
 Miscellaneous General Observation / LINE ANGLES RIGHT



4, 00:00:41, 12.84ft
 Miscellaneous General Observation / WYE LEFT



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Section Pictures - 11/3/2022 - RD3-TRAP

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD3-TRAP	7



5, 00:00:46, 13.84ft
 Miscellaneous General Observation / TIES INTO 6 INCH MAIN FROM RD2



6, 00:00:49, 15.42ft
 Miscellaneous Shape or Size Change, dia/height: 6inch / TIED INTO 6 INCH MAIN



7, 00:00:49, 15.42ft
 Miscellaneous Material Change, Vitrified clay pipe / CHANGE TO VCP



8, 00:01:09, 20.75ft
 Miscellaneous General Observation / WYE RIGHT INTO 8 INCH MAIN



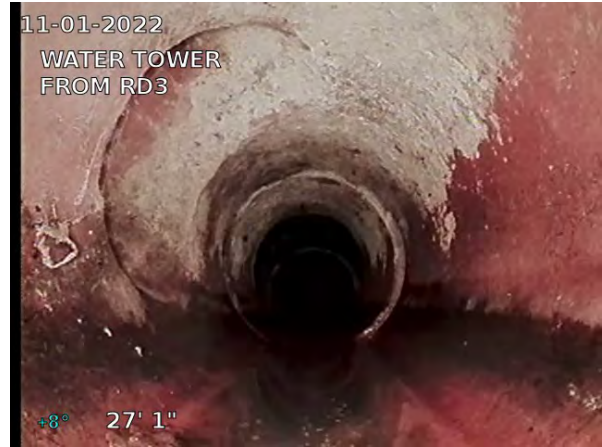
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Section Pictures - 11/3/2022 - RD3-TRAP

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD3-TRAP	7



9, 00:01:09, 20.75ft
 Miscellaneous Shape or Size Change, dia/height: 8inch / TIES INTO 8 INCH MAIN



10, 00:01:43, 27.08ft
 Tap Factory Made at 10 o'clock, dia/height: 6inch



11, 00:02:01, 28.67ft
 Miscellaneous Shape or Size Change, dia/height: 6inch / REDUCES TO 6 INCH PIPE



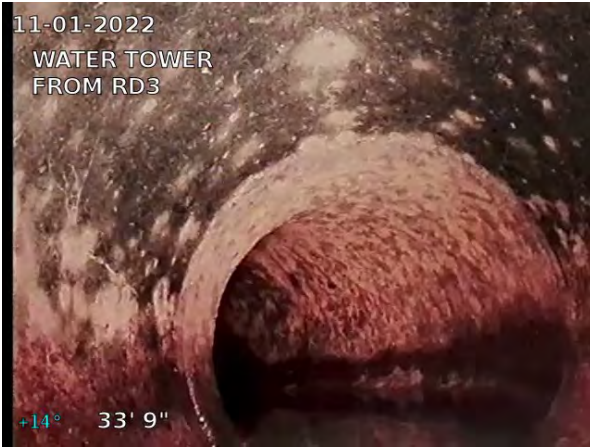
12, 00:02:01, 28.67ft
 Miscellaneous Material Change, Cast iron / CHANGE TO CIP



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Section Pictures - 11/3/2022 - RD3-TRAP

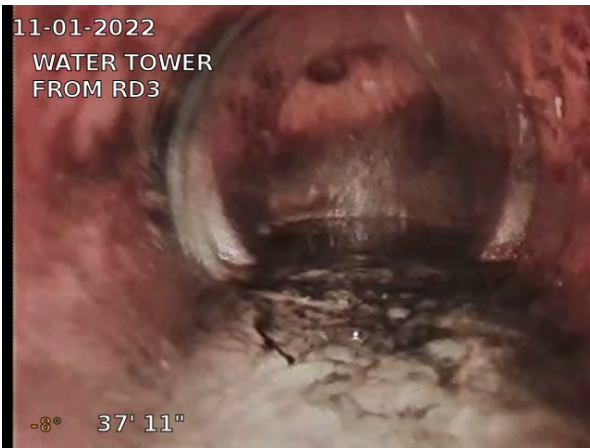
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD3-TRAP	7



13, 00:02:16, 33.75ft
Miscellaneous General Observation / LINE ANGLES LEFT



14, 00:02:26, 35.50ft
Miscellaneous General Observation / WYE RIGHT



15, 00:03:24, 37.92ft
Access Point Other / TRAP

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



Stew Eleftheriou
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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD4-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 102.3 '	Length Surveyed: 102.3 '

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD4
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4 "	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:754 Distance	Code	Observation	Counter	Photo	Grade
	0.0	AZ	Access Point Other / RD4	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2	
	3.2	MGO	Miscellaneous General Observation / LINE ANGLES LEFT	00:00:14	3	
	5.2	MGO	Miscellaneous General Observation / WYE LEFT INTO 6 INCH MAIN	00:00:25	4	
	5.2	MSC	Miscellaneous Shape or Size Change, dia/height: 6inch / TIES INTO 6 INCH MAIN	00:00:25	5	
	7.7	MWL	Water Level, 15% of the vertical dimension	00:00:35	6	
	9.5	S01 DSF	Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Start	00:00:40	7	
	10.9	CM	Crack Multiple from 9 o'clock to 3 o'clock	00:00:50	8, 9	S3
	12.7	F01 DSF	Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Finish	00:01:12	10	M4
	37.9	S02 DSF	Deposits Settled Fine, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start	00:01:51	11	
	47.9	F02 DSF	Deposits Settled Fine, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish	00:02:11	12	M2
	94.2	TF	Tap Factory Made at 12 o'clock, dia/height: 4inch / CO3	00:03:37	13	
	95.8	TF	Tap Factory Made at 10 o'clock, dia/height: 4inch	00:03:45	14	
	95.8	OBZ	Obstruction Other, 10% of cross sectional area at 6 o'clock / GOLF BALL	00:03:50	15	M2
	97.8	MWL	Water Level, 50% of the vertical dimension	00:03:56	16	
	97.8	DSF	Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock	00:03:56	17	M4

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



Stew Eleftheriou
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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD4-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 102.3 '	Length Surveyed: 102.3 '

	Distance	Code	Observation	Counter	Photo	Grade																		
	101.8	RMB	Roots Medium Barrell from 3 o'clock to 9 o'clock, 50% of cross sectional area	00:04:12	18	M4																		
	101.8	OBZ	Obstruction Other, 100% of cross sectional area from 12 o'clock to 12 o'clock / BLOCKAGE - ROOTS, LEAVES, SEDIMENT, MISC DEBRIS	00:04:12	19	M5																		
	102.3	MSA	Miscellaneous Survey Abandoned / CANNOT PASS BLOCKAGE	00:04:50	20																			
<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 20px;"> <tr> <td style="width: 12.5%;">QSR</td> <td style="width: 12.5%;">QMR</td> <td style="width: 12.5%;">QOR</td> <td style="width: 12.5%;">SPR</td> <td style="width: 12.5%;">MPR</td> <td style="width: 12.5%;">OPR</td> <td style="width: 12.5%;">SPRI</td> <td style="width: 12.5%;">MPRI</td> <td style="width: 12.5%;">OPRI</td> </tr> <tr> <td>3100</td> <td>5143</td> <td>5143</td> <td>3.0</td> <td>23.0</td> <td>26.0</td> <td>3.0</td> <td>3.3</td> <td>3.2</td> </tr> </table>							QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI	3100	5143	5143	3.0	23.0	26.0	3.0	3.3	3.2
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI																
3100	5143	5143	3.0	23.0	26.0	3.0	3.3	3.2																



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Section Pictures - 11/3/2022 - RD4-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD4-DOWNSTREAM	8



1, 00:00:00, 0.00ft
 Access Point Other / RD4



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:14, 3.16ft
 Miscellaneous General Observation / LINE ANGLES LEFT



4, 00:00:25, 5.16ft
 Miscellaneous General Observation / WYE LEFT INTO 6 INCH MAIN



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Section Pictures - 11/3/2022 - RD4-DOWNSTREAM

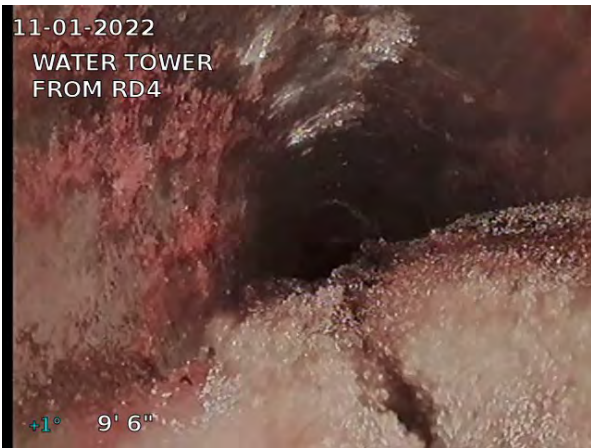
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD4-DOWNSTREAM	8



5, 00:00:25, 5.16ft
 Miscellaneous Shape or Size Change, dia/height: 6inch / TIES INTO 6 INCH MAIN



6, 00:00:35, 7.67ft
 Water Level, 15% of the vertical dimension



7, 00:00:40, 9.50ft
 Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Start



8, 00:00:50, 10.92ft
 Crack Multiple from 9 o'clock to 3 o'clock



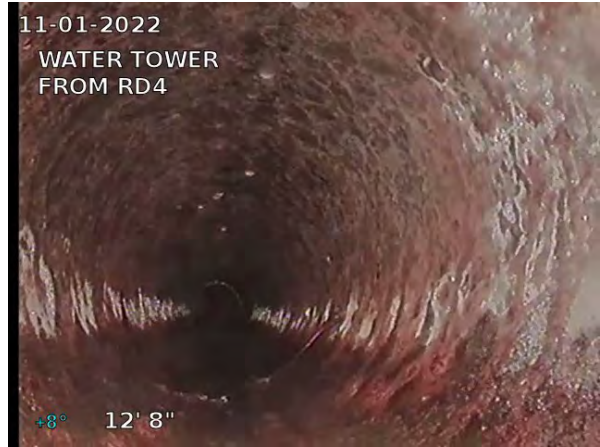
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Section Pictures - 11/3/2022 - RD4-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD4-DOWNSTREAM	8



9, 00:00:50, 10.92ft
 Crack Multiple from 9 o'clock to 3 o'clock



10, 00:01:12, 12.67ft
 Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock, within 8 inch, Finish



11, 00:01:51, 37.92ft
 Deposits Settled Fine, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Start



12, 00:02:11, 47.92ft
 Deposits Settled Fine, 10% of cross sectional area from 5 o'clock to 7 o'clock, within 8 inch, Finish



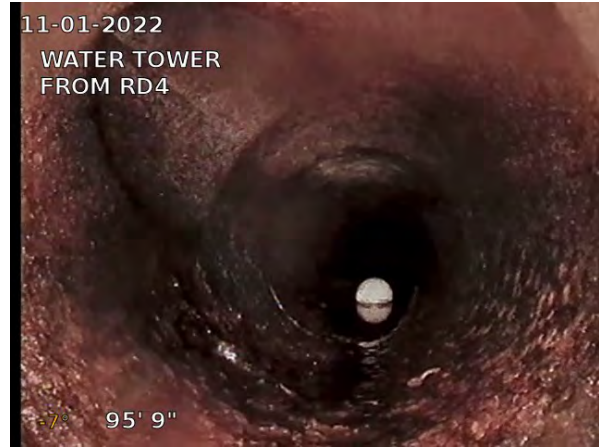
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Section Pictures - 11/3/2022 - RD4-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD4-DOWNSTREAM	8



13, 00:03:37, 94.16ft
 Tap Factory Made at 12 o'clock, dia/height: 4inch / CO3



14, 00:03:45, 95.75ft
 Tap Factory Made at 10 o'clock, dia/height: 4inch



15, 00:03:50, 95.75ft
 Obstruction Other, 10% of cross sectional area at 6 o'clock / GOLF BALL



16, 00:03:56, 97.84ft
 Water Level, 50% of the vertical dimension



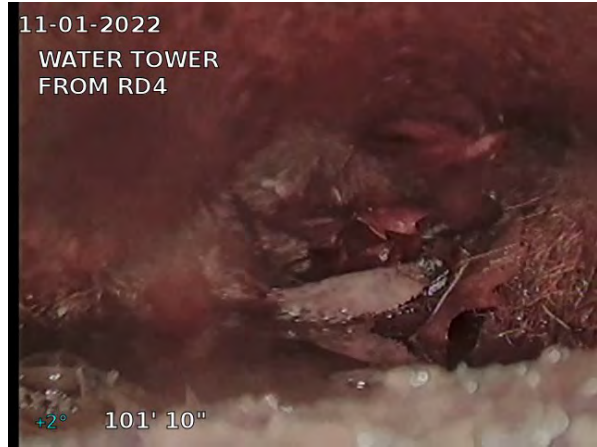
Stew Eleftheriou
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Section Pictures - 11/3/2022 - RD4-DOWNSTREAM

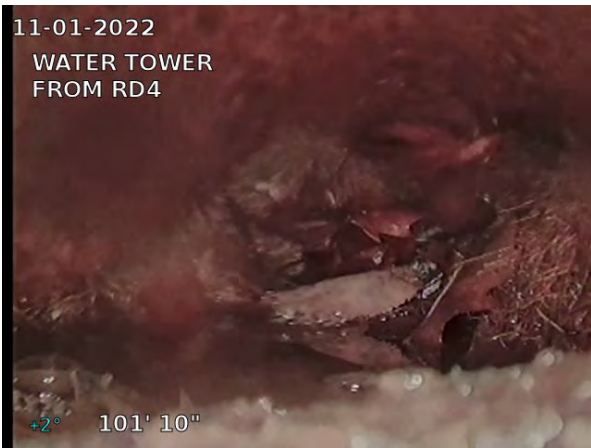
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD4-DOWNSTREAM	8



17, 00:03:56, 97.84ft
 Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock



18, 00:04:12, 101.83ft
 Roots Medium Barrell from 3 o'clock to 9 o'clock, 50% of cross sectional area



19, 00:04:12, 101.84ft
 Obstruction Other, 100% of cross sectional area from 12 o'clock to 12 o'clock / BLOCKAGE - ROOTS, LEAVES, SEDIMENT, MISC DEBRIS



20, 00:04:50, 102.25ft
 Miscellaneous Survey Abandoned / CANNOT PASS BLOCKAGE

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



Stew Eleftheriou
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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: CO3-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 8.8'	Length Surveyed: 8.8'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: CO3
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 6"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

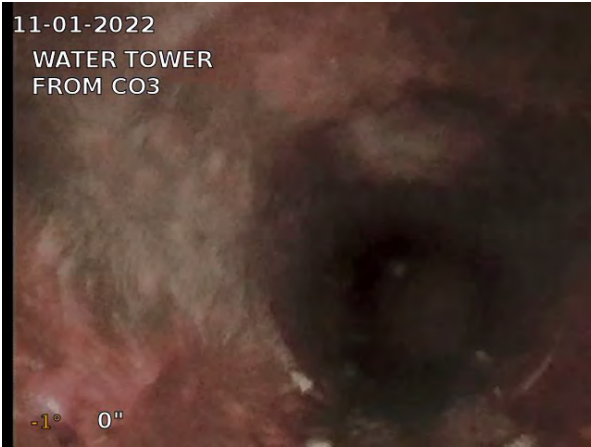
	1:67 Distance	Code	Observation	Counter	Photo	Grade		
CO3								
	0.0	ACOM	Cleanout Mainline / CO3	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	2.2	MWL	Water Level, 50% of the vertical dimension	00:00:18	3			
	2.9	DSF	Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock	00:00:21	4	M4		
	2.9	OBZ	Obstruction Other, 10% of cross sectional area at 6 o'clock / GOLF BALL	00:00:21	5	M2		
	7.5	RMB	Roots Medium Barrell from 3 o'clock to 9 o'clock, 50% of cross sectional area	00:01:01	6	M4		
	7.5	OBZ	Obstruction Other, 100% of cross sectional area from 12 o'clock to 12 o'clock / BLOCKAGE - ROOTS, LEAVES, SEDIMENT, MISC DEBRIS	00:01:01	7	M5		
	8.8	MSA	Miscellaneous Survey Abandoned / CANNOT PASS BLOCKAGE	00:01:13	8			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	5142	5142	0.0	15.0	15.0	0.0	3.8	3.8



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Section Pictures - 11/3/2022 - CO3-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CO3-DOWNSTREAM	9



1, 00:00:00, 0.00ft
 Cleanout Mainline / CO3



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:18, 2.16ft
 Water Level, 50% of the vertical dimension



4, 00:00:21, 2.92ft
 Deposits Settled Fine, 25% of cross sectional area from 4 o'clock to 8 o'clock



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Section Pictures - 11/3/2022 - CO3-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	CO3-DOWNSTREAM	9



5, 00:00:21, 2.92ft
 Obstruction Other, 10% of cross sectional area at 6 o'clock / GOLF BALL



6, 00:01:01, 7.50ft
 Roots Medium Barrell from 3 o'clock to 9 o'clock, 50% of cross sectional area



7, 00:01:01, 7.50ft
 Obstruction Other, 100% of cross sectional area from 12 o'clock to 12 o'clock / BLOCKAGE - ROOTS, LEAVES, SEDIMENT, MISC DEBRIS



8, 00:01:13, 8.75ft
 Miscellaneous Survey Abandoned / CANNOT PASS BLOCKAGE

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT







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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD5-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 11.7'	Length Surveyed: 11.7'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD5
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:89 Distance	Code	Observation	Counter	Photo	Grade		
RD5								
	0.0	AZ	Access Point Other / RD5	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	11.7	ATC	Tee Connection / TIES INTO MAIN	00:00:26	3			
DOWNSTREAM								
								
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0000	0.0	0.0	0.0	0.0	0.0	0.0



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Section Pictures - 11/3/2022 - RD5-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD5-DOWNSTREAM	10



1, 00:00:00, 0.00ft
 Access Point Other / RD5



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:26, 11.67ft
 Tee Connection / TIES INTO MAIN

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD6-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 3.1'	Length Surveyed: 3.1'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD6
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

1:50	Distance	Code	Observation	Counter	Photo	Grade
	0.0	AZ	Access Point Other / RD6	00:00:00	1	
	0.0	MWL	Water Level, 100% of the vertical dimension / TRAP AT BOTTOM OF RISER	00:00:00	2	
	3.1	MGO	Miscellaneous General Observation / TRAP AT BOTTOM OF RISER	00:00:25	3	
	3.1	MSA	Miscellaneous Survey Abandoned / CANNOT PASS THROUGH TRAP	00:00:25	4	
QSR	QMR	QOR	SPR	MPR	OPR	SPRI
0000	0000	0000	0.0	0.0	0.0	0.0
						MPRI
						OPRI
						0.0



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Section Pictures - 11/3/2022 - RD6-DOWNSTREAM

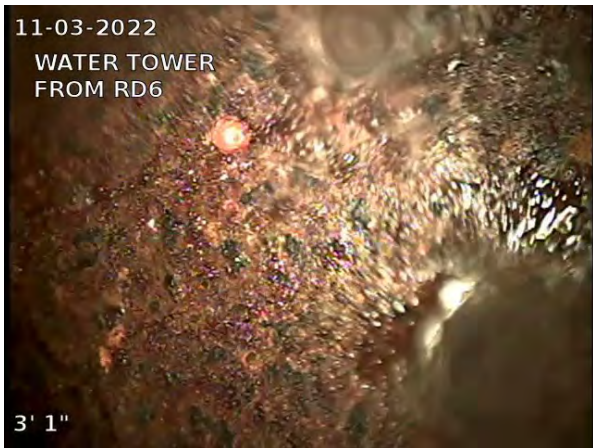
City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD6-DOWNSTREAM	11



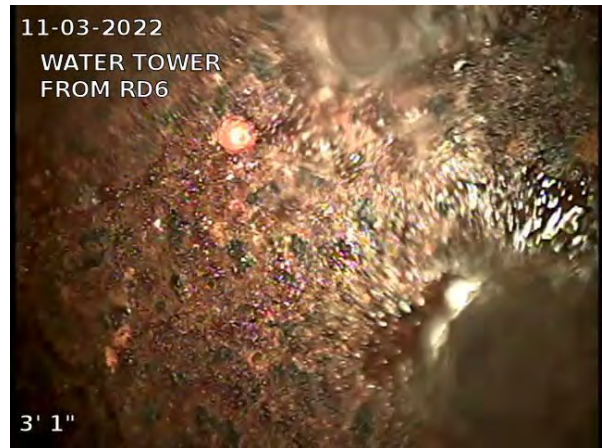
1, 00:00:00, 0.00ft
 Access Point Other / RD6



2, 00:00:00, 0.00ft
 Water Level, 100% of the vertical dimension / TRAP AT BOTTOM OF RISER



3, 00:00:25, 3.08ft
 Miscellaneous General Observation / TRAP AT BOTTOM OF RISER



4, 00:00:25, 3.08ft
 Miscellaneous Survey Abandoned / CANNOT PASS THROUGH TRAP

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT





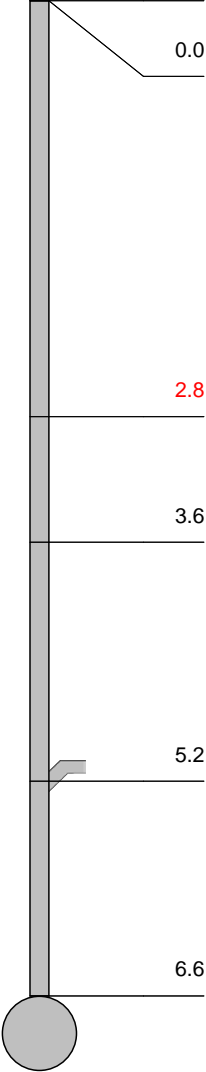



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD8-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 6.6'	Length Surveyed: 6.6'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD8
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:50 Distance	Code	Observation	Counter	Photo	Grade
RD8						
	0.0	AZ	Access Point Other / RD8	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2	
	2.8	DSZ	Deposits Settled Other, 50% of cross sectional area from 3 o'clock to 9 o'clock / SEDIMENT AND STONE	00:00:10	3, 4	M5
	3.6	MGO	Miscellaneous General Observation / LINE ANGLES RIGHT	00:00:20	5	
	5.2	TF	Tap Factory Made at 10 o'clock, dia/height: 4inch	00:00:33	6	
	6.6	ATC	Tee Connection / TIES INTO MAIN	00:00:50	7	
DOWNSTREAM						
QSR	QMR	QOR	SPR	MPR	OPR	SPRI
0000	5100	5100	0.0	5.0	5.0	0.0
						MPRI
						OPRI
						5.0
						5.0



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Section Pictures - 11/3/2022 - RD8-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD8-DOWNSTREAM	12



1, 00:00:00, 0.00ft
 Access Point Other / RD8



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:10, 2.75ft
 Deposits Settled Other, 50% of cross sectional area from 3 o'clock to 9 o'clock / SEDIMENT AND STONE



4, 00:00:10, 2.75ft
 Deposits Settled Other, 50% of cross sectional area from 3 o'clock to 9 o'clock / SEDIMENT AND STONE



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Section Pictures - 11/3/2022 - RD8-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD8-DOWNSTREAM	12



5, 00:00:20, 3.58ft
Miscellaneous General Observation / LINE ANGLES RIGHT



6, 00:00:33, 5.16ft
Tap Factory Made at 10 o'clock, dia/height: 4inch



7, 00:00:50, 6.58ft
Tee Connection / TIES INTO MAIN

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD9-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 1.3'	Length Surveyed: 1.3'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD9
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:50 Distance	Code	Observation	Counter	Photo	Grade
	0.0	AZ	Access Point Other / RD9	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension / AT RISER	00:00:00	2	
	1.3	OBR	Obstruction Rocks, 100% of cross sectional area from 12 o'clock to 12 o'clock / RISER FILLED WITH STONES	00:00:34	3	M5
	1.3	MSA	Miscellaneous Survey Abandoned / RISER FILLED WITH STONES, CANNOT ENTER LINE	00:00:35	4	

QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	5100	5100	0.0	5.0	5.0	0.0	5.0	5.0



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Section Pictures - 11/3/2022 - RD9-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD9-DOWNSTREAM	13



1, 00:00:00, 0.00ft
 Access Point Other / RD9



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension / AT RISER



3, 00:00:34, 1.25ft
 Obstruction Rocks, 100% of cross sectional area from 12 o'clock to 12 o'clock / RISER FILLED WITH STONES



4, 00:00:35, 1.25ft
 Miscellaneous Survey Abandoned / RISER FILLED WITH STONES, CANNOT ENTER LINE

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD10-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 4.0'	Length Surveyed: 4.0'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD10
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:50 Distance	Code	Observation	Counter	Photo	Grade		
	0.0	AZ	Access Point Other / RD10	00:00:00	1			
	0.0	MWL	Water Level, 0% of the vertical dimension	00:00:00	2			
	3.1	MGO	Miscellaneous General Observation / WYE LEFT	00:00:08	3			
	4.0	ATC	Tee Connection / TIES INTO MAIN	00:00:16	4			
QSR	QMR	QOR	SPR	MPR	OPR	SPRI	MPRI	OPRI
0000	0000	0000	0.0	0.0	0.0	0.0	0.0	0.0



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Section Pictures - 11/3/2022 - RD10-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD10-DOWNSTREAM	14



1, 00:00:00, 0.00ft
 Access Point Other / RD10



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension



3, 00:00:08, 3.08ft
 Miscellaneous General Observation / WYE LEFT



4, 00:00:16, 4.00ft
 Tee Connection / TIES INTO MAIN

APPENDIX A - GPRS STORM WATER LINE INSPECTION REPORT



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Inspection report

Date: 11/3/2022	Work Order:	Weather:	Surveyed By: STEW ELEFThERIOU	Certificate Number: U0318070300187	Pipe Segment Ref.: RD12-DOWNSTREAM
Year laid:	Pre-cleaning: No Pre-Cleaning	Direction: Downstream	Pipe Joint Length:	Total Length: 12.4'	Length Surveyed: 12.4'

City: PHILADELPHIA, PA	Drainage Area:	Upstream MH: RD12
Street: 209 E HARTWELL LN	Media Label:	Up Rim to Invert: 0.0
Location Code:	Flow Control:	Downstream MH: DOWNSTREAM
Location Details:	Sheet Number:	Down Rim to Invert: 0.0
Pipe shape: Circular	Sewer Use: Stormwater Pipe	Total gallons used: 0.0
Pipe size: 4"	Sewer Category: SEC	Joints passed: 0
Pipe material: Cast Iron	Purpose:	Joints failed: 0
Lining Method:	Owner:	

Additional Info:

	1:94 Distance	Code	Observation	Counter	Photo	Grade
RD12						
	0.0	AZ	Access Point Other / RD12	00:00:00	1	
	0.0	MWL	Water Level, 0% of the vertical dimension / AFTER TRAP	00:00:00	2	
	0.0	MGO	Miscellaneous General Observation / TRAP AT BOTTOM OF RISER, RUN BEGINS AFTER CAMERA HAS PASSED THROUGH TRAP	00:00:00	3	
	1.5	MGO	Miscellaneous General Observation / LINE ANGLES LEFT	00:00:09	4	
	5.1	MGO	Miscellaneous General Observation / LINE ANGLES DOWNWARD	00:00:21	5	
	10.8	MMC	Miscellaneous Material Change, Vitrified clay pipe / CHANGE TO VCP	00:00:34	6	
	10.8	FC	Fracture Circumferential from 4 o'clock to 8 o'clock	00:00:34	7	S2
	12.4	ATC	Tee Connection / TIES INTO MAIN	00:00:47	8	
DOWNSTREAM						
QSR	QMR	QOR	SPR	MPR	OPR	SPRI
2100	0000	2100	2.0	0.0	2.0	2.0
						MPRI
						OPRI
						0.0
						2.0



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Section Pictures - 11/3/2022 - RD12-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD12-DOWNSTREAM	15



1, 00:00:00, 0.00ft
 Access Point Other / RD12



2, 00:00:00, 0.00ft
 Water Level, 0% of the vertical dimension / AFTER TRAP



3, 00:00:00, 0.00ft
 Miscellaneous General Observation / TRAP AT BOTTOM OF RISER, RUN BEGINS AFTER CAMERA HAS PASSED THROUGH TRAP



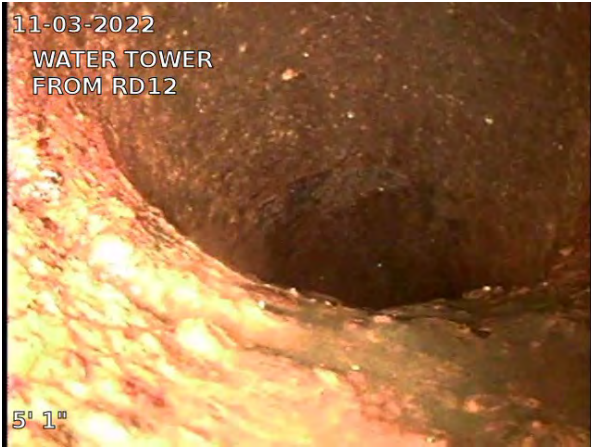
4, 00:00:09, 1.50ft
 Miscellaneous General Observation / LINE ANGLES LEFT



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Section Pictures - 11/3/2022 - RD12-DOWNSTREAM

City	Street	Date	Pipe Segment Reference	Section No.
PHILADELPHIA, PA	209 E HARTWELL LN	11/3/2022	RD12-DOWNSTREAM	15



5, 00:00:21, 5.08ft
 Miscellaneous General Observation / LINE ANGLES
 DOWNWARD



6, 00:00:34, 10.75ft
 Miscellaneous Material Change, Vitrified clay pipe / CHANGE
 TO VCP



7, 00:00:34, 10.75ft
 Fracture Circumferential from 4 o'clock to 8 o'clock



8, 00:00:47, 12.42ft
 Tee Connection / TIES INTO MAIN