Janzen, Heather

From: City Council
Subject: FW: Email - Communication - Carey Blatchford - Housing Accelerator Fund - CK 750-1
Attachments: June 24th HAF.docx; gt_PipeLogix Report.pdf

From: Web NoReply <web-noreply@Saskatoon.ca>
Sent: Monday, June 24, 2024 4:26 PM
To: City Council <City.Council@Saskatoon.ca>
Subject: Email - Communication - Carey Blatchford - Housing Accelerator Fund - CK 750-1

--- Replies to this email will go to [redacted] ---

Submitted on Monday, June 24, 2024 - 16:24

Submitted by user: [redacted]

Submitted values are:

I have read and understand the above statements.: Yes

I do not want my comments placed on a public agenda. They will be shared with members of Council through their online repository.: No

I only want my comments shared with the Mayor or my Ward Councillor.: No

Date: Monday, June 24, 2024

To: His Worship the Mayor and Members of City Council

Pronouns: She/her/hers

First Name: Carey

Last Name: Blatchford

Phonetic spelling of first and/or last name: [redacted]

Email: [redacted]

I live outside of Saskatoon: No

Saskatoon Address and Ward:
Address: [redacted] Kirk Cres
Ward: Ward 8

What do you wish to do ?: Submit Comments

What meeting do you wish to speak/submit comments ? (if known):: HAF Public Hearing

Comments:
Please see attached letter and supporting sewage infrastructure documents as to why I oppose the HAF proposal.

Attachments:

- June 24th HAF.docx14.35 KB
- gt_ PipeLogix Report.pdf332.63 KB

Will you be submitting a video to be vetted prior to council meeting?: No

June 24th

To City Council,

I live in Greystone Heights neighborhood, and we have many issues with the current sewage infrastructure. The Planning and Development Committee shared that they had a high-level analysis completed to determine that sewage infrastructure could handle densification. While I'm pleased to see that an analysis had been completed in 2022, I am disappointed to see that Development and Planning has lied to you and us when they stated that there was nothing to report and everything is good to go.

In general, the infrastructure of the 64-year-old pipes is in ok shape… if you consider multiple cracks, fractures, and breaks a high-quality standard capable of withstanding densification.

Upon further review of the analysis, the survey between 7746 and 7747 indicates an offset pipe which is a significant concern and will cause major problems. There has been no indication that these pipes have been repaired to date. Considering that this is just a review of one Crescent's sewage infrastructure I would surmise that there are many issues in the HAF proposed development areas that are also in disrepair and be reported upon. Furthermore, has the Planning and Development Committee taken into consideration that these pipes may not be able to handle additional flow from rainwater that ends up in the sewer causing issues in backflow? Reviewing these reports, I would doubt it.

Even if the sewage infrastructure was top notch according to 2011 Urban planning of sewer infrastructure research report by Roux, Mur, Risch & Boutin "Among the various parameters that affect the environmental performances of the sewer network, the housing density is indeed the main one, up to a factor of about 10 between a dense city and a scattered one." In reviewing previous minutes of the SPC Environment, Utilities and Corporate Services meetings, I could not find one discussion that considered the current sewage infrastructure, and the possible negative environmental impacts densifying Saskatoon has on Saskatchewan rivers, streams and lakes. Is it appropriate to maybe decrease our carbon footprint (as you will see in my next point) while increasing the pollution of our waters?

You need to leave Kirk Crescent and Greystone Heights out of the densification plans.

Respectfully,

Carey Blatchford
[redacted] Kirk Crescent

Tabular Report of PSR 8823 for City of Saskatoon

Setup	47	**Surveyor**	AP	**Certificate#**	U-0620-70309622	**System Owner**	C of S
Drainage		**Survey Customer**	C of S				
P/O #		**Date**	2022/11/25	**Time**	10:40	**Street**	[redacted] Kirk Cres
City	Saskatoon	**Further location details**					
Up	7747	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Down	3089	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Use	Sanitary	**Direction**	Down	**Flow control**		**Media No**	
Shape	Circular	**Height**	200 **Width**	mm	**Preclean** J	**Date Cleaned**	
Material	Clay Tile	**Joint length**	M	**Total length**	86.0 M	**Length Surveyed**	108.0 M
Lining		**Year laid**	1960	**Year rehabilitated**		**Weather**	
Purpose		**Cat**				**Pressure**	
Additional info	Counter reading 108m Should be 86m.						
Location							
Project	Sanitary CCTV					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Structural O & M Constructional Miscellaneous

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									7747
0.0			MWL	Water Level			0						
3.7			MMC	Material change									VCT
3.9			CS	Crack Spiral				J	05	08			
5.6			DAE	Deposits Attached Encrustation			5	J	08	04			
6.5			MWL	Water Level			5						
6.6			DAE	Deposits Attached Encrustation			5	J	07	03			
9.2			CS	Crack Spiral				J	10	12			
9.3			FC	Fracture Circumferential					01	11			
9.4			TBI	Tap Break-in Intruding	100	10			12				
10.1			DAE	Deposits Attached Encrustation			5	J	08	03			
12.6			MGO	General Observation									occasional blistring
17.3			DAE	Deposits Attached Encrustation			5	J	12	03			
18.7			SSS	Surface Spalling					07	08			
20.6			CL	Crack Longitudinal				J	12				
20.6			CL	Crack Longitudinal				J	06				
20.8			TBI	Tap Break-in Intruding	100	10		J	12				
21.3			TBI	Tap Break-in Intruding	100	25			12				
21.8			DAE	Deposits Attached Encrustation			5	J	09	03			
22.9			DAE	Deposits Attached Encrustation			10	J	09	03			
26.6			DAE	Deposits Attached Encrustation			10	J	09	03			
27.8			DAE	Deposits Attached Encrustation			10	J	08	04			
31.3			DAE	Deposits Attached Encrustation			15	J	07	04			
31.4			CS	Crack Spiral				J	11	12			
36.9			DAE	Deposits Attached Encrustation			5	J	07	10			
38.1			DAE	Deposits Attached Encrustation			15	J	07	04			
38.5			MMC	Material change									PVC
38.6			JOM	Joint Offset Medium									
40.4			MGO	General Observation									appears that a pvc pipe s ins...
40.6			TS	Tap Saddle	100			J	12				

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Tabular Report of PSR 8823 for City of Saskatoon

Setup	47	**Surveyor**	AP	**Certificate #**	U-0620-70309622	**System Owner**	C of S
Drainage		**Survey Customer**	C of S				
P/O #		**Date**	2022/11/25	**Time**	10:40	**Street**	[redacted] Kirk Cres
City	Saskatoon	**Further location details**					
Up	7747	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Down	3089	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Use	Sanitary	**Direction**	Down	**Flow control**		**Media No**	
Shape	Circular	**Height**	200 **Width**	mm	**Preclean** J	**Date Cleaned**	
Material	Clay Tile	**Joint length**	M	**Total length**	86.0 M	**Length Surveyed**	108.0 M
Lining		**Year laid**	1960	**Year rehabilitated**		**Weather**	
Purpose		**Cat**				**Pressure**	
Additional info	Counter reading 108m Should be 86m.						
Location							
Project	Sanitary CCTV					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Structural O & M Constructional Miscellaneous

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
41.5			TSA	Tap Saddle Active	100				12				
41.9			MMC	Material change									VCT
63.2		S01	FM	Fracture Multiple				J	12	12			
64.4		F01	FM	Fracture Multiple				J	12	12			
64.4			MMC	Material change									PVC
64.7			TS	Tap Saddle	100				12				
65.0			TSA	Tap Saddle Active	100				12				
67.2			MMC	Material change									VCT
67.2			MWL	Water Level			20						
69.2			MWL	Water Level			10						
84.2			DAE	Deposits Attached Encrustation			5	J	08	04			
87.0			FM	Fracture Multiple				J	11	11			
87.2			TBI	Tap Break-in Intruding	100	10		J	10				
87.4			TB	Tap Break-in	100				01				
93.9			MWL	Water Level			20						
94.4			MWL	Water Level			30						
96.7			MWL	Water Level			20						
102.2			MWL	Water Level			10						
107.5			FM	Fracture Multiple				J	12	12			
107.5			B	Broken				J	10	02			
108.0			AMH	Manhole									3089
108.0			FH	End of Survey									

108.0 M **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

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Tabular Report of PSR 8824 **for** **City of Saskatoon**

Setup	58	**Surveyor** HT	**Certificate #** U-915-070R00267	**System Owner** City of Saskatoon	
Drainage		**Survey Customer** City of Saskatoon			
P/O #		**Date** 2022/12/12	**Time** 15:22	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	7746	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	7747	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile	**Joint length** M	**Total length** 82.0 M	**Length Surveyed** 60.2	M
Lining		**Year laid** 1960	**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment	**Cat**		**Pressure**	
Additional info			Structural O & M Constructional Miscellaneous		
Location					
Project	22-0375			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									7746
0.0			MWL	Water Level			0						
0.3			B	Broken				J	11	07			
2.3			CM	Crack Multiple				J	12	12			
2.5			TB	Tap Break-in	100				11				
2.9			TB	Tap Break-in	100				01				
3.2			MWL	Water Level			5						
3.9			MGO	General Observation									occasional blistering
19.2			TB	Tap Break-in	100				11				
19.6			CM	Crack Multiple				J	12	02			
19.7			TB	Tap Break-in	100			J	01				
35.3			CS	Crack Spiral					10	12			
35.4			TB	Tap Break-in	100			J	10				
35.7			CM	Crack Multiple				J	01	02			
35.9			TB	Tap Break-in	100				01				
50.8			CM	Crack Multiple				J	11	12			
50.9			TBA	Tap Break-in Active	100				12				
51.4			TBA	Tap Break-in Active	100				12				
54.3			MWL	Water Level			20						
54.7			MWL	Water Level			40						
57.8			MWL	Water Level			30						
59.1			MWL	Water Level			10						
60.2			MSA	Abandoned Survey									OFSET

60.2 M **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

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Tabular Report of PSR 8825 for City of Saskatoon

Setup	57	**Surveyor** HT	**Certificate #** U-915-070R00267	**System Owner** City of Saskatoon	
Drainage		**Survey Customer** City of Saskatoon			
P/O #		**Date** 2022/12/12	**Time** 13:26	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	7741	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	7746	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile	**Joint length** M	**Total length** 88.6 M	**Length Surveyed** 88.0	M
Lining		**Year laid** 1960	**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment	**Cat**		**Pressure**	
Additional info			Structural O & M Constructional Miscellaneous		
Location					
Project	22-0375		**Work Order**		
Northing		**Easting**	**Elevation**		
Coordinate System			**GPS Accuracy**		

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									7741
0.0			MWL	Water Level			0						
0.0			CM	Crack Multiple				J	04	09			
1.4			CS	Crack Spiral				J	12	01			
2.1			MGO	General Observation									occasional blister
2.7			CL	Crack Longitudinal				J	02				
4.6			TB	Tap Break-in	100				10				
4.6			FM	Fracture Multiple					12	12			
7.0			CL	Crack Longitudinal				J	02				
8.7			MMC	Material change									PVC
9.8			MWL	Water Level			5						
10.5			MMC	Material change									VCP
12.4			RFJ	Roots Fine Joint				J	09				
13.5			RFJ	Roots Fine Joint				J	02	03			
14.6			CL	Crack Longitudinal				J	02				
14.7			RFC	Roots Fine Connection					08	09			
14.7			FM	Fracture Multiple				J	10	09			
14.8			TB	Tap Break-in	100				10				
18.1			MWL	Water Level			10						
24.7			CM	Crack Multiple					01	02			
25.0			TB	Tap Break-in	100				02				
25.0			RFC	Roots Fine Connection					03				
25.3			RFJ	Roots Fine Joint				J	12				
25.5			CM	Crack Multiple				J	07	09			
25.5			DAE	Deposits Attached Encrustation			50		08	10			in lateral
25.6			TBD	Tap Break-in Defective	100				10				calcium in lateral
28.5			RFJ	Roots Fine Joint				J	11	12			
29.6			RFJ	Roots Fine Joint				J	08	01			
30.7			RFJ	Roots Fine Joint				J	08	10			
31.8			RFJ	Roots Fine Joint				J	08				

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Tabular Report of PSR 8825 for City of Saskatoon

Setup	57	**Surveyor** HT	**Certificate#** U-915-070R00267	**System Owner** City of Saskatoon	
Drainage		**Survey Customer** City of Saskatoon			
P/O #		**Date** 2022/12/12	**Time** 13:26	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	7741	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	7746	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile	**Joint length** M	**Total length** 88.6 M	**Length Surveyed** 88.0	M
Lining		**Year laid** 1960	**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment	**Cat**		**Pressure**	
Additional info					
Location					
Project	22-0375			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Structural O & M Constructional Miscellaneous

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
32.8			RFJ	Roots Fine Joint				J	03	04			
33.8			RFJ	Roots Fine Joint				J	08	04			
38.3			RFJ	Roots Fine Joint				J	03	04			
39.3			RFJ	Roots Fine Joint				J	01	03			
41.7			RFC	Roots Fine Connection					09	11			
41.7			FM	Fracture Multiple				J	11	09			
41.8			TB	Tap Break-in	100				10				
42.1			CM	Crack Multiple					02	04			
42.2			RFC	Roots Fine Connection					02	03			
42.3			TB	Tap Break-in	100				02				
42.5			RFJ	Roots Fine Joint				J	04				
43.6			RFJ	Roots Fine Joint				J	09	03			
45.7			RFJ	Roots Fine Joint				J	09	10			
46.9			FM	Fracture Multiple				J	06	12			
51.1			RFJ	Roots Fine Joint				J	10	01			
51.2			CS	Crack Spiral				J	12	01			
56.5			RFJ	Roots Fine Joint				J	09	12			
57.6			RFJ	Roots Fine Joint				J	03				
58.7			FS	Fracture Spiral				J	11	01			
58.9			TB	Tap Break-in	100				02				
58.9			CM	Crack Multiple				J	12	04			
62.9			CS	Crack Spiral				J	10	11			
73.8			CL	Crack Longitudinal				J	11				
74.0			TB	Tap Break-in	100				11				
74.0			CS	Crack Spiral				J	09	10			
74.6			TB	Tap Break-in	100				01				
74.9			B	Broken				J	02	05			
87.8			B	Broken				J	02	10			
88.0			AMH	Manhole									7746
88.0			FH	End of Survey									

88.0 M **Total Length Surveyed**

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Tabular Report of PSR 8825 for City of Saskatoon

Setup	57	**Surveyor** HT		**Certificate #** U-915-070R00267		**System Owner** City of Saskatoon	
Drainage			**Survey Customer** City of Saskatoon				
P/O #		**Date** 2022/12/12	**Time** 13:26	**Street** [redacted] Kirk Cr			
City	Saskatoon		**Further location details**				
Up	7741		**Rim to invert**	**Grade to invert**		**Rim to grade**	M
Down	7746		**Rim to invert**	**Grade to invert**		**Rim to grade**	M
Use	Sanitary		**Direction** Down	**Flow control** De-Watered using J		**Media No**	
Shape	Circular		**Height** 200 **Width**	mm	**Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile		**Joint length** M	**Total length** 88.6 M		**Length Surveyed** 88.0 M	
Lining			**Year laid** 1960	**Year rehabilitated**		**Weather**	
Purpose	Routine Assessment		**Cat**			**Pressure**	
Additional info					Structural O & M Constructional Miscellaneous		
Location							
Project	22-0375				**Work Order**		
Northing			**Easting**		**Elevation**		
Coordinate System					**GPS Accuracy**		

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

Tabular Report of PSR 8834 for City of Saskatoon

Setup	56	**Surveyor** HT	**Certificate #** U-915-070R00267	**System Owner**	City of Saskatoon
Drainage		**Survey Customer**	City of Saskatoon		
P/O #		**Date** 2022/12/12	**Time** 12:44	**Street** [redacted]	Kirk Cr
City	Saskatoon	**Further location details**			

Up	7741	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Down	7743	**Rim to invert**		**Grade to invert**		**Rim to grade**	M

Use	Sanitary	**Direction**	Down	**Flow control**	De-Watered using J	**Media No**	
Shape	Circular	**Height**	200 **Width**	mm	**Preclean** J	**Date Cleaned**	2022/12/09
Material	Clay Tile	**Joint length**	M	**Total length** 43.7 M		**Length Surveyed** 42.7	M
Lining		**Year laid**	1960	**Year rehabilitated**		**Weather**	
Purpose	Routine Assessment	**Cat**				**Pressure**	

Additional info				Structural	O & M Constructional Miscellaneous
Location					
Project	22-0375			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									7741
0.0			MWL	Water Level			0						
0.0			CM	Crack Multiple				J	11	01			
0.6			CM	Crack Multiple				J	12	09			
0.9			RFC	Roots Fine Connection					02	03			
1.0			TB	Tap Break-in	100				02				
1.0			CM	Crack Multiple					02	01			
2.8			RFJ	Roots Fine Joint				J	07	04			
3.3			MGO	General Observation									occassional blister
3.6			RFJ	Roots Fine Joint				J	09	04			
4.3			RFJ	Roots Fine Joint				J	12	08			
5.4			CM	Crack Multiple				J	07	12			
11.7			CS	Crack Spiral				J	01	02			
12.9			RFJ	Roots Fine Joint				J	01	02			
13.5			RFC	Roots Fine Connection					01	03			
13.6			TB	Tap Break-in	100				02				
15.0			RFJ	Roots Fine Joint				J	08	02			
16.1			RFJ	Roots Fine Joint				J	09	01			
17.2			RFJ	Roots Fine Joint				J	08	03			
19.4			RFJ	Roots Fine Joint				J	10	12			
20.5			RFJ	Roots Fine Joint				J	09	02			
22.5			RFJ	Roots Fine Joint				J	12	04			
26.9			RFJ	Roots Fine Joint				J	08	03			
29.0			RFJ	Roots Fine Joint				J	12				
30.1			RFJ	Roots Fine Joint				J	08	09			
30.3			RFC	Roots Fine Connection					01	02			
30.4			TB	Tap Break-in	100				02				
31.1			RFJ	Roots Fine Joint				J	09	10			
32.2			RFJ	Roots Fine Joint				J	08	03			
34.4			RFJ	Roots Fine Joint				J	08				

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Tabular Report of PSR 8834 for City of Saskatoon

Setup	56	**Surveyor** HT	**Certificate #** U-915-070R00267	**System Owner** City of Saskatoon	
Drainage		**Survey Customer** City of Saskatoon			
P/O #		**Date** 2022/12/12	**Time** 12:44	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	7741	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	7743	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile	**Joint length** M	**Total length** 43.7 M	**Length Surveyed** 42.7	M
Lining		**Year laid** 1960	**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment	**Cat**		**Pressure**	
Additional info					
Location					
Project	22-0375			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Structural O & M Constructional Miscellaneous

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
35.4			RFJ	Roots Fine Joint				J	09	10			
36.5			RFJ	Roots Fine Joint				J	12	02			
39.8			RFJ	Roots Fine Joint				J	09	03			
41.9			RFJ	Roots Fine Joint				J	08	03			
42.7			AMH	Manhole									7743
42.7			FH	End of Survey									

42.7 M **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

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Tabular Report of PSR 8833 for City of Saskatoon

Setup	55	**Surveyor**	HT	**Certificate #**	U-915-070R00267	**System Owner**	City of Saskatoon
Drainage		**Survey Customer**	City of Saskatoon				
P/O #		**Date**	2022/12/12	**Time**	12:03	**Street**	[redacted] Kirk Cr
City	Saskatoon	**Further location details**					

Up	7742	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Down	7743	**Rim to invert**		**Grade to invert**		**Rim to grade**	M

Use	Sanitary	**Direction**	Down	**Flow control**	De-Watered using J	**Media No**	
Shape	Circular	**Height**	200 **Width**	mm	**Preclean** J	**Date Cleaned**	2022/12/09
Material	Clay Tile	**Joint length**	M	**Total length**	40.0 M	**Length Surveyed**	40.0 M
Lining		**Year laid**	1960	**Year rehabilitated**		**Weather**	
Purpose	Routine Assessment	**Cat**				**Pressure**	

Additional info						Structural	O & M Constructional Miscellaneous
Location							
Project	22-0375					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									7742
0.0			MWL	Water Level			0						
0.0			CS	Crack Spiral				J	06	07			
0.1			CS	Crack Spiral				J	05	06			
0.1			CS	Crack Spiral				J	01	05			
0.6			FS	Fracture Spiral				J	09	12			
0.6			RFJ	Roots Fine Joint				J	08	09			
0.9			TB	Tap Break-in	100				10				
0.9			RFC	Roots Fine Connection					09	10			
1.0			FS	Fracture Spiral					01	09			
1.0			CS	Crack Spiral					10	11			
1.7			RFJ	Roots Fine Joint				J	10				
6.0			RFJ	Roots Fine Joint				J	02				
13.1			RFC	Roots Fine Connection					07	10			
13.2			TB	Tap Break-in	100				10				
23.2			RFJ	Roots Fine Joint				J	09	10			
28.6			RFJ	Roots Fine Joint				J	09	02			
29.6			RFJ	Roots Fine Joint				J	09	11			
30.2			TB	Tap Break-in	100				10				
30.2			RFC	Roots Fine Connection					09	12			
30.6			MWL	Water Level			5						
30.7			RFJ	Roots Fine Joint				J	09	02			
32.7			CL	Crack Longitudinal					12				
32.9			RFJ	Roots Fine Joint				J	01	03			
34.0			CL	Crack Longitudinal				J	08				
36.1			RFJ	Roots Fine Joint				J	09	03			
36.8			MWL	Water Level			10						
37.2			RFJ	Roots Fine Joint				J	10	03			
37.2			RFJ	Roots Fine Joint				J	10	03			
38.3			MWL	Water Level			20						

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Tabular Report of PSR 8833 for City of Saskatoon

Setup	55	**Surveyor**	HT	**Certificate #**	U-915-070R00267	**System Owner**	City of Saskatoon
Drainage		**Survey Customer**	City of Saskatoon				
P/O #		**Date**	2022/12/12	**Time**	12:03	**Street**	[redacted] Kirk Cr
City	Saskatoon	**Further location details**					

Up	7742	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Down	7743	**Rim to invert**		**Grade to invert**		**Rim to grade**	M

Use	Sanitary	**Direction**	Down	**Flow control**	De-Watered using J	**Media No**			
Shape	Circular	**Height**	200	**Width**	mm	**Preclean**	J	**Date Cleaned**	2022/12/09
Material	Clay Tile	**Joint length**	M	**Total length**	40.0 M	**Length Surveyed**	40.0 M		
Lining		**Year laid**	1960	**Year rehabilitated**		**Weather**			
Purpose	Routine Assessment	**Cat**				**Pressure**			

Additional info

Structural O & M Constructional Miscellaneous

Location

Project 22-0375 **Work Order**

Northing **Easting** **Elevation**

Coordinate System **GPS Accuracy**

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
39.4			RFJ	Roots Fine Joint				J	08	04			
40.0			AMH	Manhole									7743
40.0			FH	End of Survey									

40.0 M **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

Tabular Report of PSR 8828 for City of Saskatoon

Setup	54	**Surveyor** HT		**Certificate #** U-915-070R00267		**System Owner** City of Saskatoon	
Drainage			**Survey Customer** City of Saskatoon				
P/O #		**Date** 2022/12/09	**Time** 11:27	**Street** [redacted] Kirk Cr			
City	Saskatoon		**Further location details**				
Up	3092		**Rim to invert**	**Grade to invert**		**Rim to grade**	M
Down	7742		**Rim to invert**	**Grade to invert**		**Rim to grade**	M
Use	Sanitary		**Direction** Down	**Flow control** De-Watered using J		**Media No**	
Shape	Circular		**Height** 200 **Width**	mm	**Preclean** J	**Date Cleaned**	2022/12/09
Material	Clay Tile		**Joint length** M	**Total length** 94.8 M		**Length Surveyed** 94.9	M
Lining			**Year laid** 1960	**Year rehabilitated**		**Weather**	
Purpose	Routine Assessment		**Cat**			**Pressure**	
Additional info					Structural O & M Constructional Miscellaneous		
Location							
Project	22-0375				**Work Order**		
Northing			**Easting**		**Elevation**		
Coordinate System					**GPS Accuracy**		

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									3092
0.0			MWL	Water Level			5						
0.3			FC	Fracture Circumferential					12	12			
0.5			MGO	General Observation									occasional blisters
1.1			RFJ	Roots Fine Joint				J	07	04			
1.5			TB	Tap Break-in	100				02				
1.5			RFC	Roots Fine Connection					01	03			
1.8			RFC	Roots Fine Connection					09	11			
1.9			TB	Tap Break-in	100				10				
2.2		S01	RFJ	Roots Fine Joint				J	07	03			
10.8		F01	RFJ	Roots Fine Joint				J	07	03			
15.1			RFJ	Roots Fine Joint				J	08	01			
17.3			RFJ	Roots Fine Joint				J	08	04			
18.6			TB	Tap Break-in	100				02				
18.6			RFC	Roots Fine Connection					03				
18.8			RMC	Roots Medium Connection			40		07	10			
18.9			TBD	Tap Break-in Defective	100				10				
19.4			RFJ	Roots Fine Joint				J	08	02			
35.2			TB	Tap Break-in	100				10				
35.5			CL	Crack Longitudinal				J	02				
35.8			HSV	Hole Soil Visible					01	02			
35.9			TB	Tap Break-in	100				02				
51.4			TB	Tap Break-in	100				10				
51.4			CL	Crack Longitudinal					10				
52.3			TB	Tap Break-in	100				02				
52.3			RFC	Roots Fine Connection					03				
61.4			RFJ	Roots Fine Joint				J	09	03			
62.5			RFJ	Roots Fine Joint				J	10	12			
64.7			RFJ	Roots Fine Joint				J	01	02			
65.7			RFJ	Roots Fine Joint				J	09	10			

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Tabular Report of PSR 8828 for City of Saskatoon

Setup	54	**Surveyor** HT		**Certificate #** U-915-070R00267		**System Owner** City of Saskatoon	
Drainage			**Survey Customer** City of Saskatoon				
P/O #		**Date** 2022/12/09	**Time** 11:27	**Street** [redacted] Kirk Cr			
City	Saskatoon		**Further location details**				
Up	3092		**Rim to invert**		**Grade to invert**		**Rim to grade** M
Down	7742		**Rim to invert**		**Grade to invert**		**Rim to grade** M
Use	Sanitary		**Direction** Down		**Flow control** De-Watered using J		**Media No**
Shape	Circular		**Height** 200	**Width** mm	**Preclean** J		**Date Cleaned** 2022/12/09
Material	Clay Tile		**Joint length** M	**Total length** 94.8 M			**Length Surveyed** 94.9 M
Lining			**Year laid** 1960	**Year rehabilitated**			**Weather**
Purpose	Routine Assessment		**Cat**				**Pressure**
Additional info							Structural O & M Constructional Miscellaneous
Location							
Project	22-0375						**Work Order**
Northing			**Easting**				**Elevation**
Coordinate System							**GPS Accuracy**

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
67.9			RFJ	Roots Fine Joint				J	11	03			
69.2			TBD	Tap Break-in Defective	100				10				
69.2			RFC	Roots Fine Connection					09	11			
69.6			TBD	Tap Break-in Defective	100				02				
69.6			RFC	Roots Fine Connection					01	03			
70.1			RFJ	Roots Fine Joint				J	09	03			
70.1			CS	Crack Spiral				J	09	12			
70.7			TB	Tap Break-in	100				03				
70.7			RFC	Roots Fine Connection					01	03			
71.2			RFJ	Roots Fine Joint				J	09	03			
73.6			RFJ	Roots Fine Joint				J	09	01			
76.9			TB	Tap Break-in	100				10				
76.9			RFC	Roots Fine Connection					10	11			
78.7			RFJ	Roots Fine Joint				J	12	04			
79.7			RFJ	Roots Fine Joint				J	09	10			
82.0			RFJ	Roots Fine Joint				J	09	01			
84.1			RFJ	Roots Fine Joint				J	08	03			
84.1			FM	Fracture Multiple				J	09	02			
84.8		S02	MWLS	Water Level Sag			50						
86.1		F02	MWLS	Water Level Sag			50						
87.2			RFJ	Roots Fine Joint				J	09	03			
87.2			FM	Fracture Multiple				J	10	02			
92.2			RFC	Roots Fine Connection					09	10			
92.3			TB	Tap Break-in	100				10				
93.8			RFJ	Roots Fine Joint				J	02	03			
94.5			FS	Fracture Spiral					02	11			
94.9			AMH	Manhole									7742
94.9			FH	End of Survey									

94.9 M **Total Length Surveyed**

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Tabular Report of PSR 8828 for City of Saskatoon

Setup	54	**Surveyor** HT		**Certificate #** U-915-070R00267		**System Owner** City of Saskatoon	
Drainage			**Survey Customer** City of Saskatoon				
P/O #		**Date** 2022/12/09	**Time** 11:27	**Street** [redacted] Kirk Cr			
City	Saskatoon		**Further location details**				
Up	3092		**Rim to invert**		**Grade to invert**	**Rim to grade**	M
Down	7742		**Rim to invert**		**Grade to invert**	**Rim to grade**	M
Use	Sanitary		**Direction** Down		**Flow control** De-Watered using J	**Media No**	
Shape	Circular		**Height** 200	**Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile		**Joint length**	M	**Total length** 94.8 M	**Length Surveyed** 94.9	M
Lining			**Year laid** 1960		**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment		**Cat**			**Pressure**	

Additional info				Structural	O & M	Constructional
Location				Miscellaneous		
Project	22-0375			**Work Order**		
Northing		**Easting**		**Elevation**		
Coordinate System				**GPS Accuracy**		

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

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Tabular Report of PSR 8827 **for** **City of Saskatoon**

Setup	53	**Surveyor** HT	**Certificate#** U-915-070R00267	**System Owner** City of Saskatoon	
Drainage		**Survey Customer** City of Saskatoon			
P/O #		**Date** 2022/12/09	**Time** 10:30	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	3093	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	3092	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile	**Joint length** M	**Total length** 95.6 M	**Length Surveyed** 141.8 M	
Lining		**Year laid**	**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment	**Cat**		**Pressure**	
Additional info	This section is 96.6m long not 140m			Structural O & M Constructional Miscellaneous	
Location					
Project	22-0375			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			ST	Start of Survey									
0.0			AMH	Manhole									3093
0.0			MWL	Water Level			0						
0.0			FM	Fracture Multiple				J	09	01			
0.1			B	Broken				J	09	09			
0.9			B	Broken				J	09	01			
4.9			MWL	Water Level			5						
7.9			RFC	Roots Fine Connection					01	02			
8.0			TB	Tap Break-in	100				01				
9.7			CL	Crack Longitudinal				J	10				
9.9			TB	Tap Break-in	100			J	10				
10.4			TB	Tap Break-in	100				02				
13.8			CL	Crack Longitudinal				J	07				
31.0			TB	Tap Break-in	100				01				
31.1			RFC	Roots Fine Connection					01	02			
31.5			RFC	Roots Fine Connection					08	11			
31.5			ISSRH	Intruding Sealing Ring Hanging			5		08	12			
31.6			TS	Tap Saddle	100				09				
57.4			CS	Crack Spiral					03	09			
59.7			CM	Crack Multiple				J	02	08			
59.7			SSS	Surface Spalling				J	01	02			
60.0			TB	Tap Break-in	100			J	01				
60.0			RFC	Roots Fine Connection					12	02			
60.2			FS	Fracture Spiral					12	12			
60.6			TBD	Tap Break-in Defective	100				10				
60.6			RBL	Roots Ball Lateral			100		10	11			
60.7			RFC	Roots Fine Connection					09	10			
82.2			RFJ	Roots Fine Joint				J	12				
90.3			FS	Fracture Spiral				J	01	02			
90.5			TB	Tap Break-in	100			J	01				
90.5			RFC	Roots Fine Connection					12	01			

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Tabular Report of PSR 8827 for City of Saskatoon

Setup	53	**Surveyor** HT	**Certificate #** U-915-070R00267	**System Owner** City of Saskatoon	
Drainage		**Survey Customer** City of Saskatoon			
P/O #		**Date** 2022/12/09	**Time** 10:30	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	3093	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	3092	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/12/09	
Material	Clay Tile	**Joint length** M	**Total length** 95.6 M	**Length Surveyed** 141.8 M	
Lining		**Year laid**	**Year rehabilitated**	**Weather**	
Purpose	Routine Assessment	**Cat**		**Pressure**	
Additional info	This section is 96.6m long not 140m				
Location					
Project	22-0375			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Structural O & M Constructional
Miscellaneous

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
90.7			FS	Fracture Spiral					01	09			
91.1			TBD	Tap Break-in Defective	100				10				
91.1			RFC	Roots Fine Connection					07	12			
113.6			MWL	Water Level			10						
114.2			TB	Tap Break-in	100				02				
114.6			TB	Tap Break-in	100				10				
115.3			FM	Fracture Multiple				J	12	06			
121.7			RFJ	Roots Fine Joint				J	09	02			
123.1			RFJ	Roots Fine Joint				J	09	10			
124.7			RFJ	Roots Fine Joint				J	08	04			
125.2			TS	Tap Saddle	100				09				
127.7			RFJ	Roots Fine Joint				J	09	03			
129.1			RFJ	Roots Fine Joint				J	08	04			
129.4			MWL	Water Level			20						
130.6			RFJ	Roots Fine Joint				J	08	11			
138.3			RFJ	Roots Fine Joint				J	08	04			
141.3			RFJ	Roots Fine Joint				J	08	04			
141.8			AMH	Manhole									3092
141.8			FH	End of Survey									

141.8 **M** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

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Tabular Report of PSR 8826 for City of Saskatoon

Setup 51	**Surveyor** AP	**Certificate #** U-0620-70309622	**System Owner**		
Drainage	**Survey Customer** C of S				
P/O #	**Date** 2022/11/25	**Time** 13:26	**Street** [redacted] Kirk Cr		
City Saskatoon	**Further location details**				
Up 3088	**Rim to invert**	**Grade to invert**	**Rim to grade** M		
Down 3093	**Rim to invert**	**Grade to invert**	**Rim to grade** M		
Use Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**		
Shape Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/11/25		
Material Clay Tile	**Joint length** M	**Total length** 103.0 M	**Length Surveyed** 103.0 M		
Lining	**Year laid** 1960	**Year rehabilitated**	**Weather**		
Purpose	**Cat**		**Pressure**		
Additional info		Structural O & M Constructional Miscellaneous			
Location					
Project Sanitary CCTV		**Work Order**			
Northing	**Easting**	**Elevation**			
Coordinate System		**GPS Accuracy**			

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			CM	Crack Multiple				J	11	06			
0.0			ST	Start of Survey									
0.0			AMH	Manhole									3088
0.0			MWL	Water Level			0						
0.5			HSV	Hole Soil Visible					04	05			
0.5			B	Broken					02	09			
0.6			FC	Fracture Circumferential					07	04			
0.6			CM	Crack Multiple					08	04			
0.9			B	Broken				J	12	01			
13.5			TB	Tap Break-in	100				10				
34.7			CM	Crack Multiple				J	09	10			
34.9			TB	Tap Break-in	100				10				
53.6			TB	Tap Break-in	100				11				
54.2			CL	Crack Longitudinal				J	10				
55.1			DAE	Deposits Attached Encrustation			10	J	07	05			
57.0			CM	Crack Multiple				J	05	06			
71.4			TB	Tap Break-in	100				12				
89.5			TB	Tap Break-in	100				11				
93.1			RFJ	Roots Fine Joint				J	05	08			
97.2			RFJ	Roots Fine Joint				J	09	04			
102.2			HSV	Hole Soil Visible				J	08	02			
103.0			MSA	Abandoned Survey									offset

103.0 M **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Index**	**Quick Rating**

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Tabular Report of PSR 8830 for City of Saskatoon

Setup	49	**Surveyor**	AP	**Certificate #**	U-0620-70309622	**System Owner**	
Drainage		**Survey Customer**	C of S				
P/O #		**Date**	2022/11/25	**Time**	12:24	**Street**	Kirk Cr
City	Saskatoon	**Further location details**					
Up	3089	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Down	3088	**Rim to invert**		**Grade to invert**		**Rim to grade**	M
Use	Sanitary	**Direction**	Down	**Flow control**	De-Watered using J	**Media No**	
Shape	Circular	**Height**	200 **Width**	mm	**Preclean** J	**Date Cleaned**	2022/11/25
Material	Clay Tile	**Joint length**	M	**Total length**	84.3 M	**Length Surveyed**	82.8 M
Lining		**Year laid**	1960	**Year rehabilitated**		**Weather**	
Purpose		**Cat**				**Pressure**	
Additional info							
Location							
Project	Sanitary CCTV					**Work Order**	
Northing		**Easting**				**Elevation**	
Coordinate System						**GPS Accuracy**	

Structural O & M Constructional Miscellaneous

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
0.0			CM	Crack Multiple				J	12	12			
0.0			ST	Start of Survey									
0.0			AMH	Manhole									3089
0.0			MWL	Water Level			5						
0.4			FM	Fracture Multiple					12	12			
0.7			B	Broken				J	04	09			
0.9			FS	Fracture Spiral				J	09	04			
2.2			MWL	Water Level			10						
2.4			MGO	General Observation									occasional blisters
3.5			MWL	Water Level			20						
4.8			MWL	Water Level			30						
4.9			MWL	Water Level			40						
6.0			MWL	Water Level			30						
8.8			MWL	Water Level			50						
9.1			MCU	Camera Underwater									
9.7			MWL	Water Level			50						
9.9			MWL	Water Level			30						
11.3			MWL	Water Level			40						
11.9			MWL	Water Level			30						
12.3			MWL	Water Level			10						
13.2			MWL	Water Level			20						
13.5			MWL	Water Level			30						
13.9			MWL	Water Level			40						
14.5			MWL	Water Level			50						
14.9			MCU	Camera Underwater									
16.1			MWL	Water Level			40						
16.2			MWL	Water Level			20						
16.7			MWL	Water Level			10						
16.9			DAE	Deposits Attached Encrustation			10	J	08	03			
19.0			DAE	Deposits Attached Encrustation			10	J	07	12			
27.6			DAE	Deposits Attached Encrustation			10	J	08	04			

PipeLogix Inc.
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Tabular Report of PSR 8830 **for** **City of Saskatoon**

Setup	49	**Surveyor** AP	**Certificate #** U-0620-70309622	**System Owner**	
Drainage		**Survey Customer** C of S			
P/O #		**Date** 2022/11/25	**Time** 12:24	**Street** [redacted] Kirk Cr	
City	Saskatoon	**Further location details**			
Up	3089	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Down	3088	**Rim to invert**	**Grade to invert**	**Rim to grade**	M
Use	Sanitary	**Direction** Down	**Flow control** De-Watered using J	**Media No**	
Shape	Circular	**Height** 200 **Width**	mm **Preclean** J	**Date Cleaned** 2022/11/25	
Material	Clay Tile	**Joint length**	M **Total length** 84.3 M	**Length Surveyed** 82.8	M
Lining		**Year laid** 1960	**Year rehabilitated**	**Weather**	
Purpose		**Cat**		**Pressure**	
Additional info			Structural O & M Constructional Miscellaneous		
Location					
Project	Sanitary CCTV			**Work Order**	
Northing		**Easting**		**Elevation**	
Coordinate System				**GPS Accuracy**	

Count	Video	CD	Code		In1	In2	%	Jnt	Fr	To	Im	Ref	Remarks
39.4			DAE	Deposits Attached Encrustation			5	J	08	03			
43.7			DAE	Deposits Attached Encrustation			10	J	08	03			
45.8			DAE	Deposits Attached Encrustation			10	J	08	01			
72.7			DAE	Deposits Attached Encrustation			5	J	10	03			
74.9			DAE	Deposits Attached Encrustation			5	J	08	11			
76.7			MWL	Water Level			20						
77.1			DAE	Deposits Attached Encrustation			5	J	09	03			
77.2			CS	Crack Spiral				J	10	02			
78.7			SSS	Surface Spalling					12				
78.7			MWL	Water Level			30						
80.3			MWL	Water Level			40						
81.0			MWL	Water Level			10						
82.8			MSA	Abandoned Survey									Off set

82.8 **M** **Total Length Surveyed**

Scores

Structural:	**Pipe Rating**	**Pipe Ratings Inde›**	**Quick Rating**
O&M:	**Pipe Rating**	**Pipe Ratings Inde›**	**Quick Rating**
Overall	**Pipe Rating**	**Pipe Ratings Inde›**	**Quick Rating**

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