



PIPEFLO CONTRACTING CORP.

111 FRID STREET

HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

Surveyors name PIPEFLMD **Certificate Number** U-414-06020730 **System Owner** REVOLUTION LANDFILL LP **Survey Customer** REVOLUTION LANDFILL LP **Drainage Area** **Sheet** 1

P/O No. 4501005340 **Pipeline Segment Reference** 20 **Date** 20210825 **Time** 15:53 **Location (Street Name and number)** CO2 **Locality** STONEY CREEK

Further Location details 65 GREEN MOUNTAIN **Upstream Manhole Number** CO2-1 **Rim to Invert** **Grade to Invert** **Rim to Grade**

Downstream Manhole Number 1 **Rim to Invert** **Grade to Invert** **Rim to Grade** **Use of Sewer** Processes **Direction** Downstream **Flow Control** N **Height** 200

Width **Shape** Circular **Material** PVC **Ln. Method** **Pipe Joint Length** **Total Length** 49.6 **Length Surveyed** **Year Laid** **Year Rehabilitated** **Tape / Media Number** 20

Purpose F **Sewer Category** A **Pre-Cleaning** No Pre-Cleaning **Cleaned** **Weather** Dry **Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0			Starting Manhole: CO2-1		
0.0	MWL					0			MWL@0					
5.7	ISSR	H				25	7	2	ISSRH@5.7		4			
19.9	DS	Z	S01			10	5	7	DSZ@19.9			OTHER		
22.0	DS	Z	F01			10	5	7	DSZ@22		21	OTHER		
22.0	MCU		S02						MCU@22					
49.6	MCU		F02						MCU@49.6		418			
49.6	MSA								MSA@49.6			DUE TO DISTANCE		

Segment	Structural									O & M						Overall								
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
20-CO2-1-1	0	0	0	0	0	0	0000		0	2	0	76	0	78	4B21	3.9	0	2	0	76	0	78	4B21	3.9



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Upstream MH CO2-1	Downstream MH 1	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
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Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2	Location Details 65 GREEN MOUNTAIN
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Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 15:53	Length Surveyed 49.6
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Additional Information

	Ftg.	Code	Description	Pct.	Position	Cont.	Comment
 	0.0	AMH	Access Point - Manhole				Starting Manhole: CO2-1
	0.0	MWL	Water Level	0			
 	5.7	ISSRH	Intruding Seal Material - Sealing Ring: Hanging	25	7 to 2		
	19.9	DSZ	Deposits Settled: Other	10	5 to 7	S01	OTHER
	22.0	DSZ	Deposits Settled: Other	10	5 to 7	F01	OTHER
	22.0	MCU	Camera Underwater			S02	
	49.6	MCU	Camera Underwater			F02	DUE TO DISTANCE
	49.6	MSA	Survey Abandoned				

Upstream MH CO2-1	Downstream MH 1	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 15:53	Length Surveyed 49.6
Additional Information					



AMH - Access Point - Manhole @ 0.0 m.
Starting Manhole: CO2-1

MWL - Water Level @ 0.0 m.



ISSRH - Intruding Seal Material - Sealing Ring: Hanging @ 5.7 m.

DSZ - Deposits Settled: Other @ 19.9 m.
OTHER

Upstream MH CO2-1	Downstream MH 1	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 15:53	Length Surveyed 49.6
Additional Information					



DSZ - Deposits Settled: Other @ 22.0 m.
OTHER



MCU - Camera Underwater @ 22.0 m.



MCU - Camera Underwater @ 49.6 m.



MSA - Survey Abandoned @ 49.6 m.
DUE TO DISTANCE



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Surveyors name PIPEFLMD **Certificate Number** U-414-06020730 **System Owner** REVOLUTION LANDFILL LP **Survey Customer** REVOLUTION LANDFILL LP **Drainage Area** **Sheet** 1

P/O No. 4501005340 **Pipeline Segment Reference** 21 **Date** 20210825 **Time** 16:04 **Location (Street Name and number)** CO2 **Locality** STONEY CREEK

Further Location details 65 GREEN MOUNTAIN **Upstream Manhole Number** CO2-2 **Rim to Invert** **Grade to Invert** **Rim to Grade**

Downstream Manhole Number 2 **Rim to Invert** **Grade to Invert** **Rim to Grade** **Use of Sewer** Processes **Direction** Downstream **Flow Control** N **Height** 200

Width **Shape** Circular **Material** PVC **Ln. Method** **Pipe Joint Length** **Total Length** **Length Surveyed** 22.8 **Year Laid** **Year Rehabilitated** **Tape / Media Number** 21

Purpose F **Sewer Category** A **Pre-Cleaning** No Pre-Cleaning **Cleaned** **Weather** Dry **Additional Information**

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L	1st 2nd			%	At / From					To
0.0	AMH								AMH@0				Starting Manhole: CO2-2	
0.0	MWL					0			MWL@0					
22.8	DS	Z				100	6	6	DSZ@22.8		5		OTHER	
22.8	MSA								MSA@22.8				DUE TO BLOCKAGE	

Segment	Structural									O & M						Overall								
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
21-CO2-2-2	0	0	0	0	0	0	0000		0	0	0	0	5	5	5100	5.0	0	0	0	0	5	5	5100	5.0



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Upstream MH CO2-2	Downstream MH 2	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
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Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2	Location Details 65 GREEN MOUNTAIN
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Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:04	Length Surveyed 22.8
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Additional Information



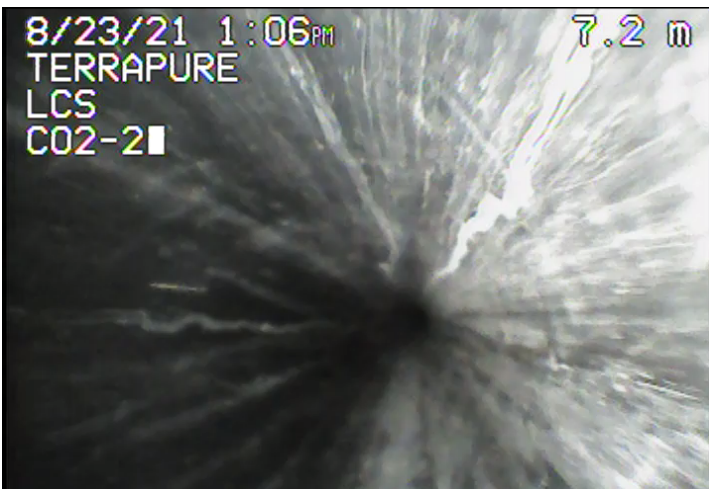
Upstream MH CO2-2	Downstream MH 2	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:04	Length Surveyed 22.8
Additional Information					



AMH - Access Point - Manhole @ 0.0 m.
Starting Manhole: CO2-2



MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 22.8 m.
OTHER



MSA - Survey Abandoned @ 22.8 m.
DUE TO BLOCKAGE



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Surveyors name PIPEFL0MD
 Certificate Number U-414-06020730
 System Owner REVOLUTION LANDFILL LP
 Survey Customer REVOLUTION LANDFILL LP
 Drainage Area
 Sheet 1

P/O No. 4501005340
Pipeline Segment Reference 22
Date 20210825
Time 16:07
Location (Street Name and number) CO2
Locality STONEY CREEK

Further Location details 65 GREEN MOUNTAIN
Upstream Manhole Number CO2-3
Rim to Invert
Grade to Invert
Rim to Grade

Downstream Manhole Number 3
Rim to Invert
Grade to Invert
Rim to Grade
Use of Sewer Processes
Direction Downstream
Flow Control N
Height 200

Width
Shape Circular
Material PVC
Ln. Method
Pipe Joint Length
Total Length
Length Surveyed 37
Year Laid
Year Rehabilitated
Tape / Media Number 22

Purpose F
Sewer Category A
Pre-Cleaning No Pre-Cleaning
Cleaned
Weather Dry
Additional Information

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0				Starting Manhole: CO2-3	
0.0	MWL					0			MWL@0					
19.5	DS	Z	S01			15	5	7	DSZ@19.5				OTHER	
22.7	DS	Z	F01			10	5	7	DSZ@22.7		22		OTHER	
22.7	MCU								MCU@22.7		4			
37.0	MSA								MSA@37				DUE TO DISTANCE	

Segment	Structural							O & M							Overall									
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
22-CO2-3-3	0	0	0	0	0	0	0000		0	4	0	4	0	8	4122	2.7	0	4	0	4	0	8	4122	2.7



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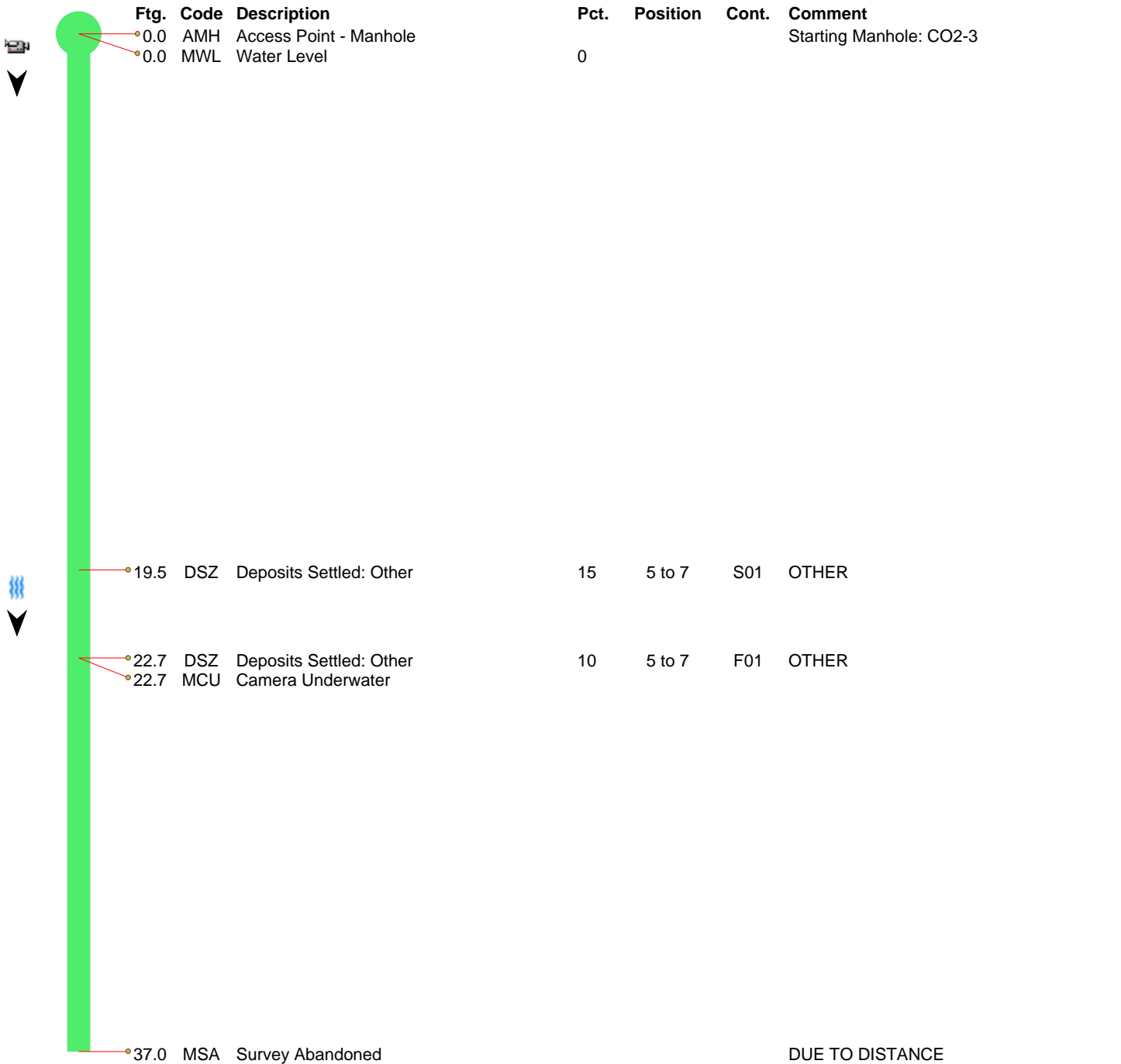
TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

Upstream MH CO2-3	Downstream MH 3	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
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Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2	Location Details 65 GREEN MOUNTAIN
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Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:07	Length Surveyed 37
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Additional Information



Upstream MH CO2-3	Downstream MH 3	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:07	Length Surveyed 37
Additional Information					



AMH - Access Point - Manhole @ 0.0 m.
Starting Manhole: CO2-3

MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 19.5 m.
OTHER

DSZ - Deposits Settled: Other @ 22.7 m.
OTHER

Upstream MH CO2-3	Downstream MH 3	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:07	Length Surveyed 37
Additional Information					



MCU - Camera Underwater @ 22.7 m.



MSA - Survey Abandoned @ 37.0 m.
DUE TO DISTANCE



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Surveyors name PIPEFL0MD
 Certificate Number U-414-06020730
 System Owner REVOLUTION LANDFILL LP
 Survey Customer REVOLUTION LANDFILL LP
 Drainage Area
 Sheet 1

P/O No. 4501005340
Pipeline Segment Reference 23
Date 20210825
Time 16:13
Location (Street Name and number) CO2
Locality STONEY CREEK

Further Location details 65 GREEN MOUNTAIN
Upstream Manhole Number CO2-4
Rim to Invert
Grade to Invert
Rim to Grade

Downstream Manhole Number 4
Rim to Invert
Grade to Invert
Rim to Grade
Use of Sewer Processes
Direction Downstream
Flow Control N
Height 200

Width
Shape Circular
Material PVC
Ln. Method
Pipe Joint Length
Total Length
Length Surveyed 43.7
Year Laid
Year Rehabilitated
Tape / Media Number 23

Purpose F
Sewer Category A
Pre-Cleaning No Pre-Cleaning
Cleaned
Weather Dry
Additional Information

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0			Starting Manhole: CO2-4		
0.0	MWL					0			MWL@0					
20.8	DS	Z				10	5	7	DSZ@20.8		2	OTHER		
23.0	MCU		S01						MCU@23					
43.7	MCU		F01						MCU@43.7		414			
43.7	MSA								MSA@43.7			DUE TO DISTANCE		

Segment	Structural						O & M						Overall											
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
23-CO2-4-4	0	0	0	0	0	0	0000		0	2	0	56	0	58	4A21	3.9	0	2	0	56	0	58	4A21	3.9



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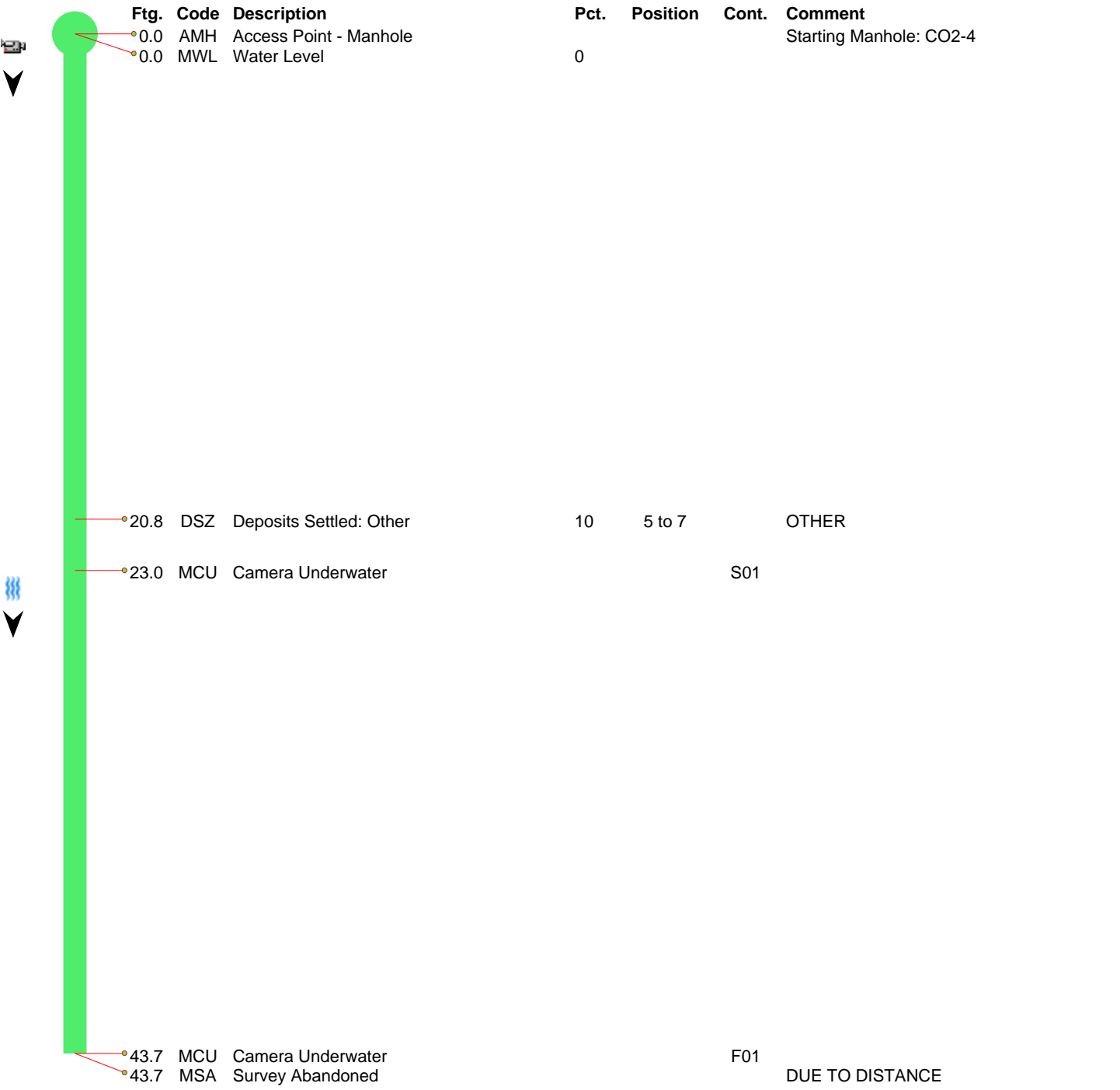
TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

Upstream MH CO2-4	Downstream MH 4	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
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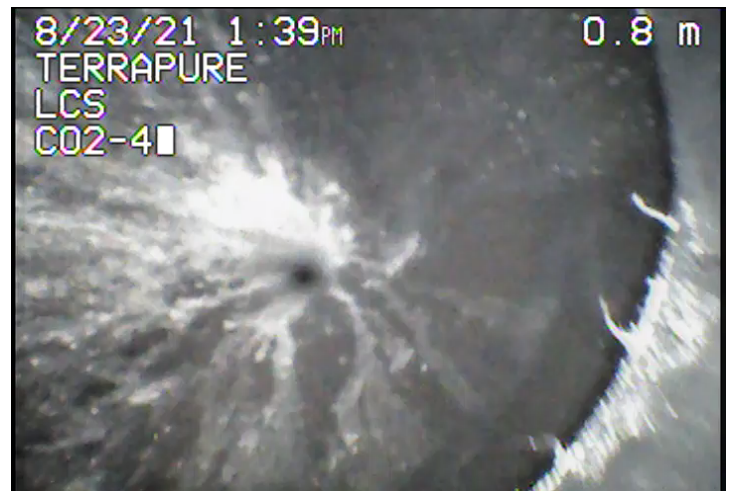
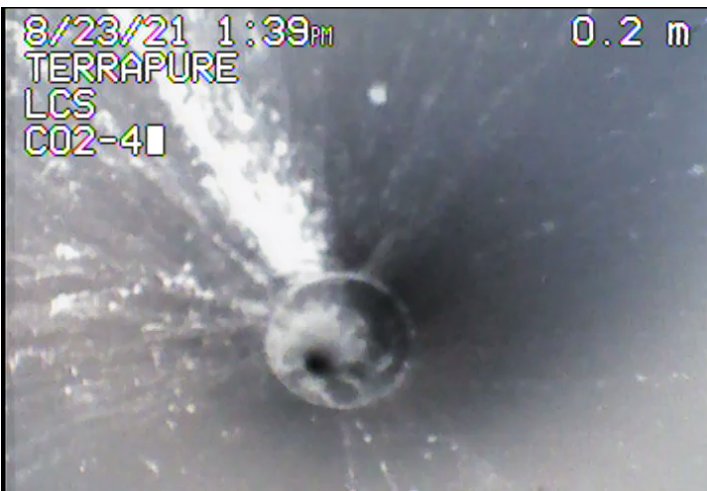
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2	Location Details 65 GREEN MOUNTAIN
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Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:13	Length Surveyed 43.7
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Additional Information



Upstream MH CO2-4	Downstream MH 4	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:13	Length Surveyed 43.7
Additional Information					



AMH - Access Point - Manhole @ 0.0 m.
Starting Manhole: CO2-4

MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 20.8 m.
OTHER

MCU - Camera Underwater @ 23.0 m.

Upstream MH CO2-4	Downstream MH 4	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:13	Length Surveyed 43.7
Additional Information					



MCU - Camera Underwater @ 43.7 m.



MSA - Survey Abandoned @ 43.7 m.
DUE TO DISTANCE



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 Certificate Number U-414-06020730
 System Owner REVOLUTION LANDFILL LP
 Survey Customer REVOLUTION LANDFILL LP
 Drainage Area
 Sheet 1

P/O No. 4501005340
Pipeline Segment Reference 24
Date 20210825
Time 16:16
Location (Street Name and number) CO2
Locality STONEY CREEK

Further Location details 65 GREEN MOUNTAIN
Upstream Manhole Number CO2-5
Rim to Invert
Grade to Invert
Rim to Grade

Downstream Manhole Number 5
Rim to Invert
Grade to Invert
Rim to Grade
Use of Sewer Processes
Direction Downstream
Flow Control N
Height 200

Width
Shape Circular
Material PVC
Ln. Method
Pipe Joint Length
Total Length
Length Surveyed 33.5
Year Laid
Year Rehabilitated
Tape / Media Number 24

Purpose F
Sewer Category A
Pre-Cleaning No Pre-Cleaning
Cleaned
Weather Dry
Additional Information

Distance (Meters)	Code		Continuous defect	Value			Joint	Circumferential Location		Image Ref.	Struct. Grade	O&M Grade	Remarks	
	Group/Descriptor	Modifier/severity		S/M/L				%	At / From					To
					1st	2nd								
0.0	AMH								AMH@0				Starting Manhole: CO2-5	
0.0	MWL					0			MWL@0					
19.7	DS	Z	S01			10		5	7	DSZ@19.7			OTHER	
22.5	DS	Z	F01			10		5	7	DSZ@22.5	22		OTHER	
33.5	MCU									MCU@33.5	4			
33.5	MSA												DUE TO DISTANCE	

Segment	Structural						O & M						Overall											
	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Rating	Quick	Index
24-CO2-5-5	0	0	0	0	0	0	0000		0	4	0	4	0	8	4122	2.7	0	4	0	4	0	8	4122	2.7



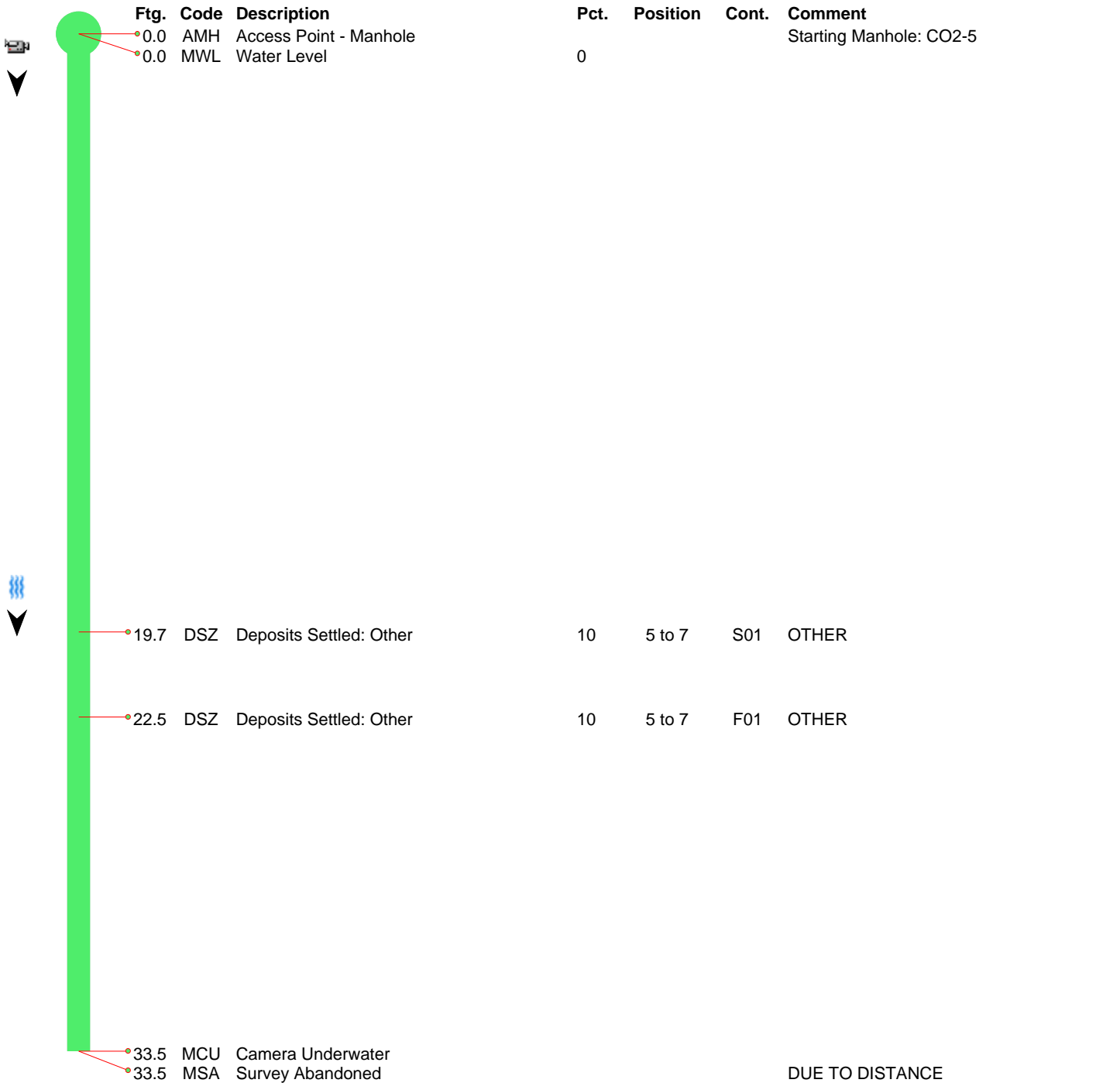
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TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

Upstream MH CO2-5	Downstream MH 5	Size 200	Material Polyvinyl Chloride	Total Length	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:16	Length Surveyed 33.5
Additional Information					





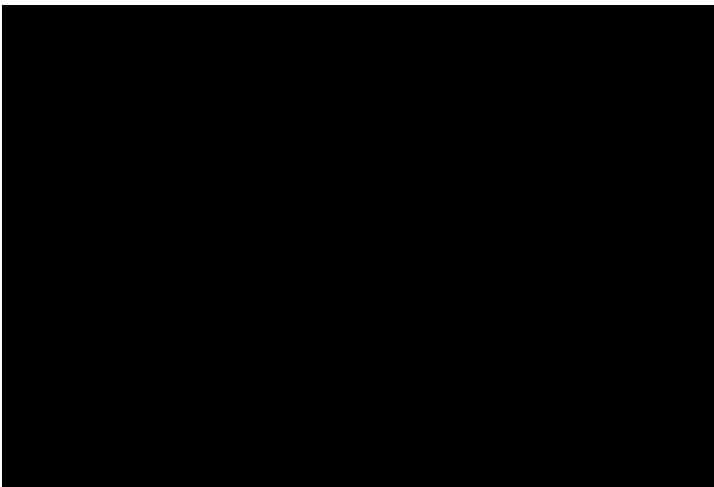
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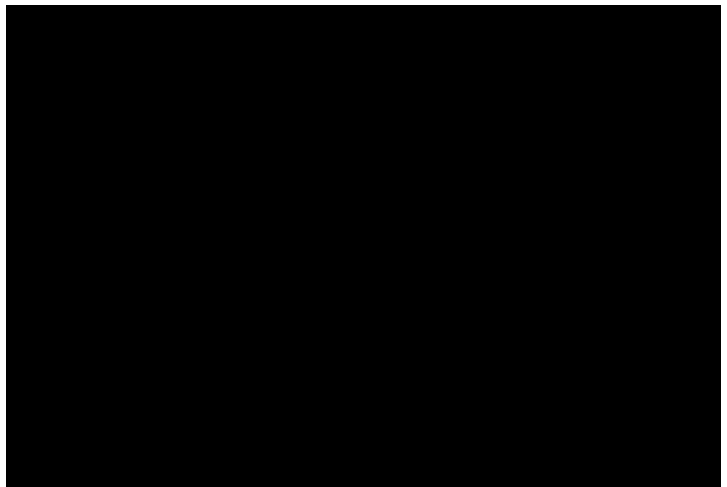
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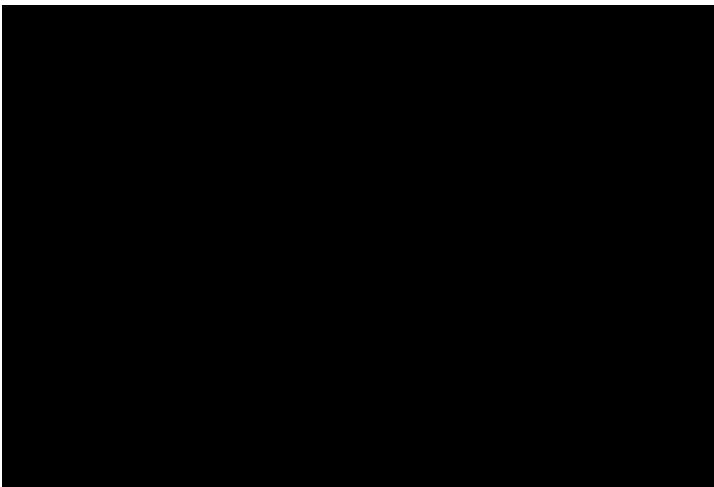
Upstream MH CO2-5	Downstream MH 5	Size 200	Material Polyvinyl Chloride	Total Length 	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:16	Length Surveyed 33.5
Additional Information					



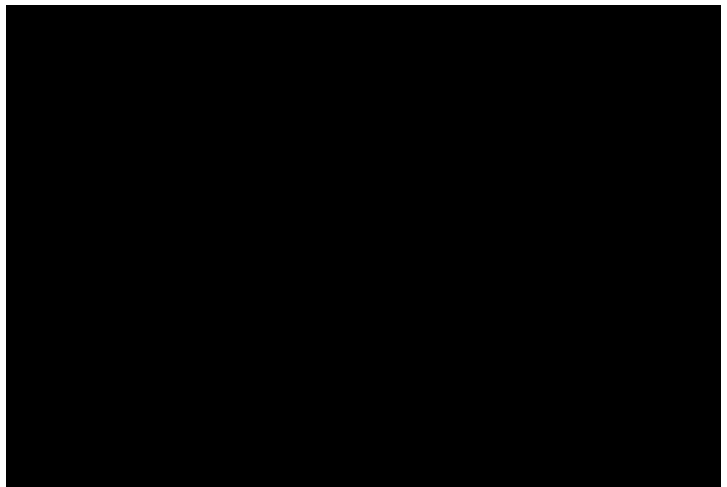
AMH - Access Point - Manhole @ 0.0 m.
Starting Manhole: CO2-5



MWL - Water Level @ 0.0 m.



DSZ - Deposits Settled: Other @ 19.7 m.
OTHER



DSZ - Deposits Settled: Other @ 22.5 m.
OTHER



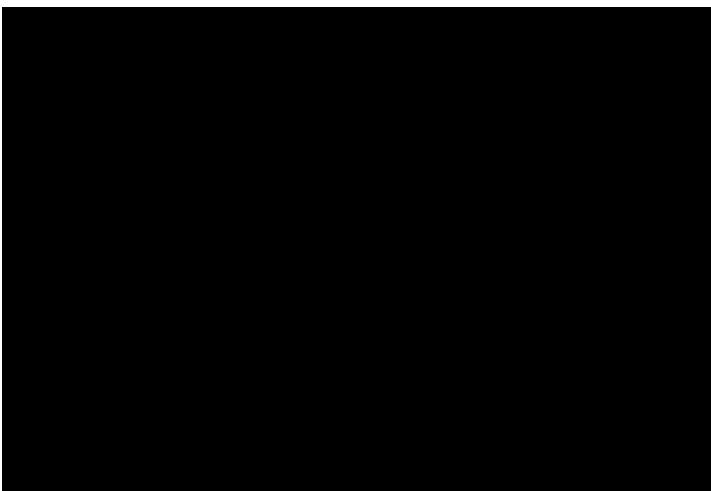
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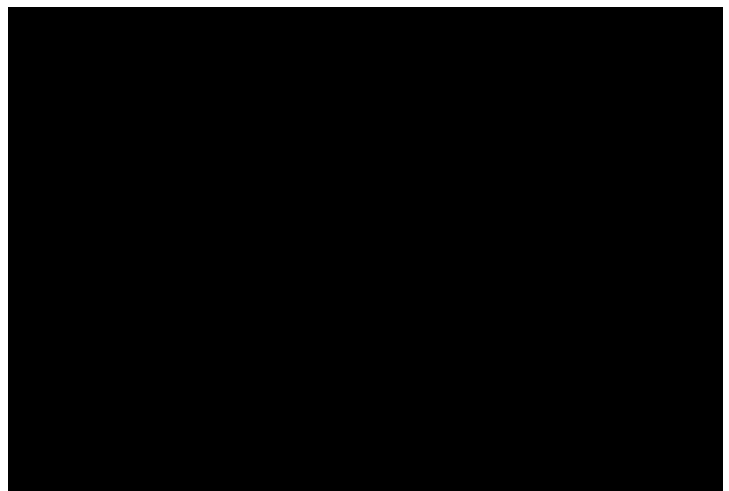
HAMILTON, ONTARIO L8P 4M3

TOLL-FREE: 1-866-711-4567, TELEPHONE: 905-572-7767, FAX: 905-572-7768

Upstream MH CO2-5	Downstream MH 5	Size 200	Material Polyvinyl Chloride	Total Length 	City STONEY CREEK
Surveyor's Name PIPEFLOMD	Certificate Number U-414-06020730	Street Address CO2		Location Details 65 GREEN MOUNTAIN	
Direction Downstream	Purpose Routine Assessment	Weather Dry	Date 20210825	Time 16:16	Length Surveyed 33.5
Additional Information 					



MCU - Camera Underwater @ 33.5 m.



MSA - Survey Abandoned @ 33.5 m.
DUE TO DISTANCE