

Project

Project Name: 002561, Knowsley Redevelopment Ltd

Project Description: WinCan Import in Miraculix WRc4 Standard

Project Date: 27/04/2022

Inspection Standard: MSCC4 Sewers & Drainage GB (SRM4 Scoring)

Project Name 002561, Knowsley Redevelopment Ltd	Project Number	Project Date 27/04/2022
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Project Information

Project Name	Project Number	Project Date
002561, Knowsley Redevelopment Ltd		27/04/2022

Site

Company: Knowsley Redevelopment Ltd
Contact: Jordan McGlacken
Street: Penrhyn Road
Town or City: Knowsley
County: Merseyside

Contractor

Company: RAM Safety Solutions UK Ltd
Contact: Daniel Hampson
Department: Contracts and Business Development Manager
Street: 3 Pitt Street
Town or City: Widnes
County: Cheshire
Post Code: WA8 0TG
Phone: 0800 999 7266

Scoring Summary

Project Name
002561, Knowsley Redevelopment Ltd

Project Number

Project Date
27/04/2022

Structural Defects

Section	PLR	Grade	Description
All inspected pipes are in an acceptable structural condition (< grade 3).			

Service / Operational Condition

Section	PLR	Grade	Description
All inspected pipes are in an acceptable service condition (< grade 3).			

Abandoned Surveys

Section	PLR	Description
All inspections complete, none are abandoned.		

Information

These scoring summaries are based on the SRM grading from the WRc.

Section Profile

Project Name
002561, Knowsley Redevelopment Ltd

Project Number

Project Date
27/04/2022

Circular, 900 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
1	MH05A	MH05	27/04/2022	Penrhyn Road	Concrete	42.07 m	42.07 m

Total: 1 Inspection x Circular 900 mm = 42.07 m Total Length and 42.07 m Inspected Length

Circular, 2000 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Pipe Material	Total Length	Inspected Length
2	MH03	MH04	05/05/2022	Knowsley Road	Concrete	205.09 m	205.09 m
3	MH04	MH05	05/05/2022	Knowsley Road	Concrete	136.16 m	136.16 m

Total: 2 Inspections x Circular 2000 mm = 341.25 m Total Length and 341.25 m Inspected Length

Total: 3 Inspections = 383.32 m Total Length and 383.32 m Inspected Length

Section Summary

Project Name 002561, Knowsley Redevelopment Ltd	Project Number	Project Date 27/04/2022
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Number of sections	3
Total length of sections	383.32 m
Total length of inspected sections	383.32 m
Total length of not inspected sections	0.00 m
Number of abandoned inspections	0
Number of section inspection photos	5
Number of section inspection videos	3
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	MH05A	Upstream Node:	MH05A
Inspection Direction:	Downstream	Downstream Node:	MH05
Inspected Length:	42.07 m	Dia/Height:	900 mm
Total Length:	42.07 m	Pipe Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node type, manhole, reference number: MH05A
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.00	GP	General photograph taken at this point
4	0.00	REM	General remark
5	11.92	GP	General photograph taken at this point
6	18.96	LR	Line deviates right
7	24.06	GP	General photograph taken at this point
8	26.69	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 11 o'clock, 5% cross-sectional area loss
9	31.92	GP	General photograph taken at this point
10	40.70	CN	Connection other than junction at 12 o'clock, diameter: 225mm
11	42.07	MHF	Finish node type, manhole, reference number: MH05

PLR:	MH03X	Upstream Node:	MH03
Inspection Direction:	Upstream	Downstream Node:	MH04
Inspected Length:	205.09 m	Dia/Height:	2,000 mm
Total Length:	205.09 m	Pipe Material:	Concrete

No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 5% of the vertical dimension
3	0.60	LR	Line deviates right
4	205.09	MHF	Finish node, manhole, reference: MH03

Section Summary

Project Name 002561, Knowsley Redevelopment Ltd	Project Number	Project Date 27/04/2022
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PLR:	MH04X	Upstream Node:	MH04
Inspection Direction:	Downstream	Downstream Node:	MH05
Inspected Length:	136.16 m	Dia/Height:	2,000 mm
Total Length:	136.16 m	Pipe Material:	Concrete
No.	m+	Code	Observation
1	0.00	MH	Start node, manhole, reference: MH04
2	0.00	WL	Water level, 5% of the vertical dimension
3	126.34	LR	Line deviates right
4	136.16	OCF	Finish node, other special chamber, reference: MH05

Project Summary

Project Name 002561, Knowsley Redevelopment Ltd	Project Number	Project Date 27/04/2022
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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	MH05A	MH05A	MH05	Penrhyn Road	Knowsley	W	CO	Circular 900mm	42.07 m
2	SEC	MH03X	MH03	MH04	Knowsley Road	Prescot	S	CO	Circular 2000mm	205.09 m
3	SEC	MH04X	MH04	MH05	Knowsley Road	Prescot	S	CO	Circular 2000mm	136.16 m
Total:										383.32 m

Pipe Levels

No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
1	MH05A	MH05A			3.610 m	MH05			5.090 m
2	MH03X	MH03			0.000 m	MH04			0.000 m
3	MH04X	MH04			0.000 m	MH05			0.000 m

Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 2000mm	205.09 m	
Circular 2000mm	136.16 m	
Circular 2000mm =	341.25 m	2
Circular 900mm	42.07 m	
Circular 900mm =	42.07 m	1
Total =	383.32 m	3

Project Summary

Project Name 002561, Knowsley Redevelopment Ltd	Project Number	Project Date 27/04/2022
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Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	MH05A	MH05	DS	G.Smith	27/04/2022	14:34	1	2	MHF	42.07 m
2	1	MH03	MH04	US	M.Sampson	05/05/2022	0:00	1	1	MHF	205.09 m
3	1	MH04	MH05	DS	M.Sampson	05/05/2022	0:00	1	1	OCF, MH05	136.16 m
Total:											383.32 m

Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 2000mm	205.09 m	
Circular 2000mm	136.16 m	
Circular 2000mm =	341.25 m	2
Circular 900mm	42.07 m	
Circular 900mm =	42.07 m	1
Total =	383.32 m	3

Defect Summary

Defect Summary				CCTV Drainage Survey Observation Count																				
				General				Structural Condition								Service Condition						Misc		
Sect. No.	Insp. No.	Upstream Node	Downstream Node	Insp. Length (m)	No. Grade 4/5 Obs.	Survey Abandoned	Camera Under Water	Cracks	Fractures	Broken	Deformed	Collapsed	Holes	Surface Damage	Displaced Joints	Open Joints	Roots	Infiltration	Encrustation	Silt	Grease	Obstruction	Water Level	Line Deviates
1	1	MH05A	MH05	42.1													1		1				1	1
2	1	MH03	MH04	205.1																			1	1
3	1	MH04	MH05	136.2																			1	1
Total:				383.3													1		1				3	3

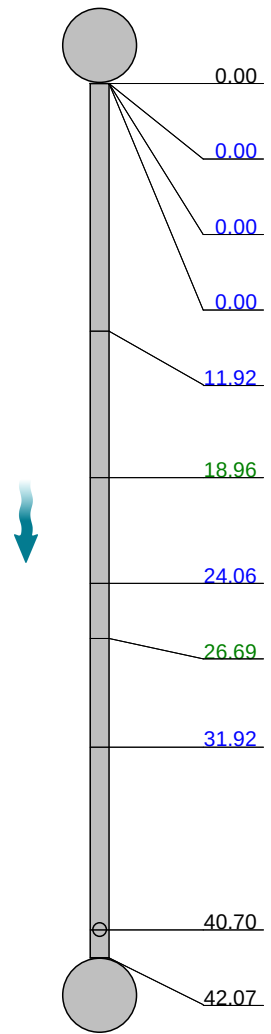
Section Inspection - 27/04/2022 - MH05A

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
1	1	27/04/22	14:34	Not Specified	No Rain Or Snow	No	MH05A
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
G.Smith		Y27RSS		Camera Assist	0.00 m	Not Specified	Not Specified

Town or Village:	Knowsley	Inspection Direction:	Downstream	Upstream Node:	MH05A
Road:	Penrhyn Road	Inspected Length:	42.07 m	Upstream Pipe Depth:	3.610 m
Location:	Road	Total Length:	42.07 m	Downstream Node:	MH05
Surface Type:		Joint Length:		Downstream Pipe Depth:	5.090 m
Use:	Culverted watercourse	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	900 mm		
Flow Control:	No flow control	Pipe Material:	Concrete		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Routine inspection of condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:363	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: 3.61 m MH05A 							
	0.00	MH	Start node type, manhole, reference number: MH05A	00:00:00			
	0.00	WL	Water level, 5% of the vertical dimension	00:00:09			
	0.00	GP	General photograph taken at this point	00:00:11	MH05A_2 52f41c8-1 b5f-44d0-9		
	0.00	REM	General remark: CHAIN ACROSS THE OUTGOING PIPE IN MH05A	00:00:17	MH05A_b 4263f91-a 8fb-4f3c-9		
	11.92	GP	General photograph taken at this point	00:01:25	MH05A_3f d669ff-304 7-4c96-9c		
	18.96	LR	Line deviates right: SLIGHT	00:01:48			
	24.06	GP	General photograph taken at this point	00:02:09	MH05A_9 c5d008f-2 7e8-414a-		
	26.69	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 11 o'clock, 5% cross-sectional area loss	00:02:28			2
	31.92	GP	General photograph taken at this point	00:03:09	MH05A_f6 78e999-63 04-49ab-a		
	40.70	CN	Connection other than junction at 12 o'clock, diameter: 225mm	00:03:47			
	42.07	MHF	Finish node type, manhole, reference number: MH05	00:04:51			
MH05 Depth: 5.09 m							

Construction Features

Structural Defects

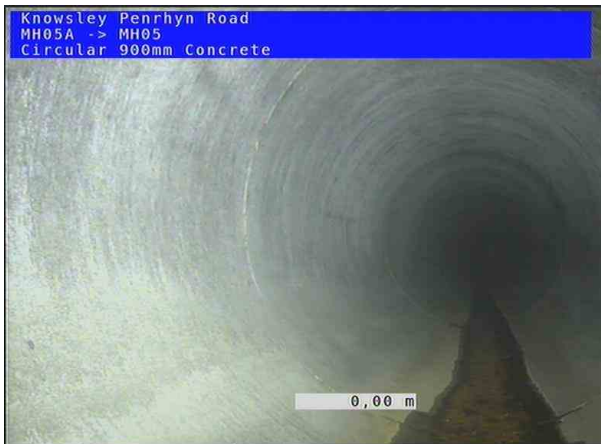
Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	1	1.0	0.0	1.0	2.0

Section Pictures - 27/04/2022 - MH05A

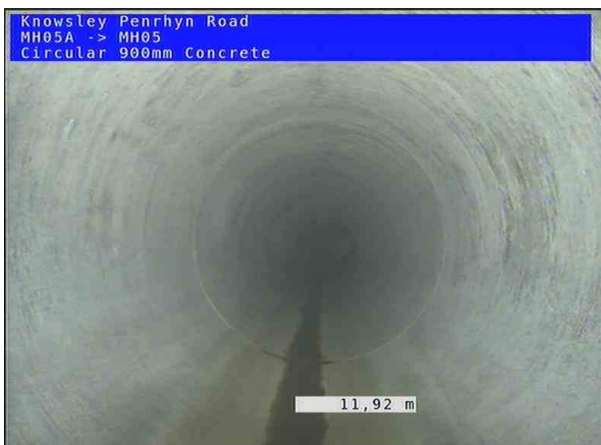
Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH05A		002561



MH05A_252f41c8-1b5f-44d0-9b73-9d5e78f637a4_20220427_143859_224.jpg, 00:00:11, 0.00 m
General photograph taken at this point



MH05A_b4263f91-a8fb-4f3c-9d3e-a8c5069213ef_20220427_143928_509.jpg, 00:00:17, 0.00 m
General remark, CHAIN ACROSS THE OUTGOING PIPE IN MH05A



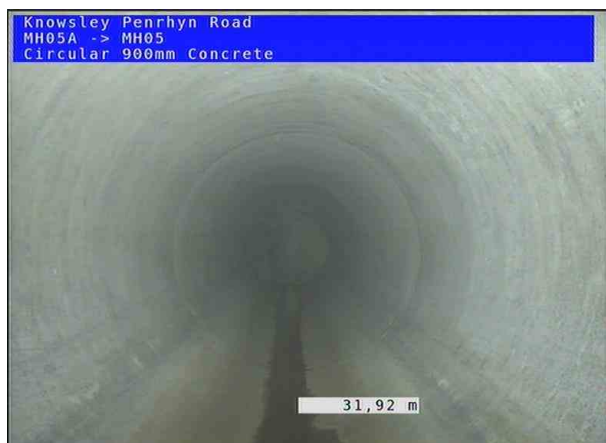
MH05A_3fd669ff-3047-4c96-9c91-2972cacad3a0b_20220427_144214_706.jpg, 00:01:25, 11.92 m
General photograph taken at this point



MH05A_9c5d008f-27e8-414a-9280-e5ffabfe89b0_20220427_144309_525.jpg, 00:02:09, 24.06 m
General photograph taken at this point

Section Pictures - 27/04/2022 - MH05A

Item No.	Inspection Direction	PLR	Client's Job Ref	Contractor's Job Ref
1	Downstream	MH05A		002561



MH05A_f678e999-6304-49ab-aab9-aac383c1ac44_20220427
_144421_106.jpg, 00:03:09, 31.92 m
General photograph taken at this point

Section Inspection - 05/05/2022 - MH03X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
2	2	05/05/22	9:26	002561	No Rain Or Snow	Not Known	MH03X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
M.Sampson		Not Specified		Not Specified	Not Specified	Not Specified	1

Town or Village:	Prescot	Inspection Direction:	Upstream	Upstream Node:	MH03
Road:	Knowsley Road	Inspected Length:	205.09 m	Upstream Pipe Depth:	
Location:	Difficult access	Total Length:	205.09 m	Downstream Node:	MH04
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	2,000 mm		
Flow Control:	No flow control	Pipe Material:	Concrete		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:1769	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH04 0.00 0.00 0.60 205.09 MH03 Depth: m							
		0.00	MH	Start node, manhole, reference: MH04	00:00:00		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:00		
		0.60	LR	Line deviates right	00:00:04		
		205.09	MHF	Finish node, manhole, reference: MH03	00:15:30		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

Section Inspection - 05/05/2022 - MH04X

Item No.	Insp. No.	Date	Time	Client's Job Ref	Weather	Pre Cleaned	PLR
3	1	05/05/22	8:38	002561	No Rain Or Snow	Not Known	MH04X
Operator		Vehicle		Camera	Preset Length	Legal Status	Alternative ID
M.Sampson		Not Specified		Not Specified	Not Specified	Not Specified	1

Town or Village:	Prescot	Inspection Direction:	Downstream	Upstream Node:	MH04
Road:	Knowsley Road	Inspected Length:	136.16 m	Upstream Pipe Depth:	
Location:	Difficult access	Total Length:	136.16 m	Downstream Node:	MH05
Surface Type:		Joint Length:		Downstream Pipe Depth:	
Use:	Surface water	Pipe Shape:	Circular		
Type of Pipe:	Gravity drain/sewer	Dia/Height:	2,000 mm		
Flow Control:	No flow control	Pipe Material:	Concrete		
Year Constructed:	Not Specified	Lining Type:	No Lining		
Inspection Purpose:	Sample survey to determine asset condition	Lining Material:	No Lining		

Comments:

Recommendations:

Scale:	1:1174	Position [m]	Code	Observation	MPEG	Photo	Grade
Depth: m MH04 0.00 0.00 126.34 136.16 MH05 Depth: m							
		0.00	MH	Start node, manhole, reference: MH04	00:00:01		
		0.00	WL	Water level, 5% of the vertical dimension	00:00:01		
		126.34	LR	Line deviates right	00:08:50		
		136.16	OCF	Finish node, other special chamber, reference: MH05: MH05	00:10:01		

Construction Features

Structural Defects

Miscellaneous Features

Service & Operational Observations

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
0	0.0	0.0	0.0	1.0	0	0.0	0.0	0.0	1.0

