KD Drainage and Asbestos
Matts Hill Farm, Matts Hill Road, Siitingbourne
Tel. 01622919012
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Project

Project Name: Highgate Cemetery

Project Date: 06/03/2024

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Project Information

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Client

Company: Friends of Highgate Cemetery Trust
Contact: Mr Bill Marsden
Street: Highgate Cemetery, Swains Lane
Town or City: London
County: London
Post Code: N6 6PJ
Mobile: 07990 595676
Email: bill.marsden-ext@arteliagroup.com

Manager

Company: Friends of Highgate Cemetery Trust
Contact: Mr Bill Marsden
Street: Highgate Cemetery, Swains Lane
Town or City: London
County: London
Post Code: N6 6PJ
Mobile: 07990 595676
Email: bill.marsden-ext@arteliagroup.com

Contractor

Company: KD Drainage and Asbestos
Description: CCTV Inspections
Contact: Mr Luke Healey
Department: Drainage
Street: Matts Hill Farm, Matts Hill Road
Town or City: Siitingbourne
County: Kent
Post Code: ME9 7UY
Phone: 01622919012
Email: www.kddaa.co.uk

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Structural Defects

Grade 3: Best practice suggests consideration should be given to repairs in the medium term.

Grade 4: Best practice suggests consideration should be given to repairs to avoid a potential collapse.

Grade 5: Best practice suggests that this pipe is at risk of collapse at any time. Urgent consideration should be given to repairs to avoid total failure.

Section	PLR	Grade	Description
9	RWG6X	4	Broken pipe at joint from 8 o'clock to 11 o'clock
42	Branch BX	4	Broken pipe at joint from 9 o'clock to 4 o'clock
51	Branch AX	5	Hole in drain or sewer from 8 o'clock to 12 o'clock
52	Branch BX	4	Broken pipe at joint from 10 o'clock to 2 o'clock
92	RWG75X	4	Multiple defects
96	Branch AX	5	Hole in drain or sewer from 10 o'clock to 2 o'clock
98	UpstreamX	4	Broken pipe at joint from 12 o'clock to 12 o'clock
103	MH22X	4	Fractures, multiple at joint from 12 o'clock to 12 o'clock
110	Branch CX	4	Displaced bricks, single brick false from 7 o'clock to 8 o'clock
114	RWG89X	4	Broken pipe at joint from 10 o'clock to 3 o'clock

Service / Operational Condition

Grade 3: Best practice suggests consideration should be given to maintenance activities in the medium term.

Grade 4: Best practice suggests consideration should be given to maintenance activity to avoid potential blockages.

Grade 5: Best practice suggests that this pipe is at a high risk of backing up or causing flooding.

Section	PLR	Grade	Description
2	MH2X	4	Settled deposits, fine, 20% cross-sectional area loss, finish
3	RWG8X	4	Multiple defects
4	RWG9X	4	Settled deposits, fine, 30% cross-sectional area loss
5	RWG10X	4	Settled deposits, fine, 75% cross-sectional area loss
6	RWG11X	4	Settled deposits, fine, 25% cross-sectional area loss, finish
7	RWG1X	4	Settled deposits, fine, 20% cross-sectional area loss, finish
8	RWG3X	4	Settled deposits, fine, 20% cross-sectional area loss, finish
9	RWG6X	4	Settled deposits, fine, 50% cross-sectional area loss, finish
13	RWG12X	4	Settled deposits, coarse, 40% cross-sectional area loss, finish
14	RWG13X	4	Settled deposits, fine, 60% cross-sectional area loss, finish
15	RWG14X	4	Settled deposits, fine, 50% cross-sectional area loss
16	RWG17X	4	Settled deposits, fine, 60% cross-sectional area loss
17	RWG22X	4	Settled deposits, fine, 30% cross-sectional area loss
19	MH3X	4	Settled deposits, fine, 20% cross-sectional area loss, finish
21	MH5X	4	Multiple defects
23	Branch DX	4	Settled deposits, coarse, 40% cross-sectional area loss, start

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Section	PLR	Grade	Description
24	Branch EX	4	Settled deposits, coarse, 70% cross-sectional area loss
25	MH6X	4	Multiple defects
28	Branch CX	5	Settled deposits, coarse, 90% cross-sectional area loss
29	MH7X	4	Multiple defects
30	MH8X	5	Roots, mass at joint, 20% cross-sectional area loss, finish
33	MH9X	4	Joint displaced, large
36	RWG28X	4	Joint displaced, large
39	RWG26X	4	Joint displaced, large
45	MH10X	3	Multiple defects
48	MH11X	4	Settled deposits, fine, 25% cross-sectional area loss, finish
51	Branch AX	5	Other obstacles, protruding through wall from 9 o'clock to 11 o'clock, 20% cross-sectional area loss
53	MH14X	4	Multiple defects
58	RWG35X	4	Settled deposits, fine, 20% cross-sectional area loss
62	MH17X	5	Other obstacles from 4 o'clock to 6 o'clock, 25% cross-sectional area loss, finish
65	Branch AX	5	Other obstacles from 3 o'clock to 5 o'clock, 25% cross-sectional area loss, start
67	Branch BX	5	Other obstacles at joint from 8 o'clock to 11 o'clock, 20% cross-sectional area loss
71	MH19X	3	Joint displaced, medium
72	Branch AX	5	Roots, mass, 55% cross-sectional area loss
74	RWG54X	5	Roots, mass, 80% cross-sectional area loss, finish
76	RWG41X	4	Attached deposits, encrustation at joint from 3 o'clock to 10 o'clock, 40% cross-sectional area loss
78	RWG40X	5	Settled deposits, fine, 85% cross-sectional area loss
79	RWG42X	4	Joint displaced, large
80	RWG49X	5	Roots, mass, 50% cross-sectional area loss, finish
81	RWG58X	4	Multiple defects
83	RWG56X	4	Multiple defects
84	RWG57X	4	Multiple defects
86	RWG84X	4	Settled deposits, fine, 75% cross-sectional area loss
89	RWG59X	5	Settled deposits, fine, 80% cross-sectional area loss
90	UpstreamX	5	Other obstacles, protruding through wall at joint from 2 o'clock to 4 o'clock, 25% cross-sectional area loss
91	RWG73X	4	Multiple defects
93	RWG83X	4	Settled deposits, fine, 40% cross-sectional area loss, finish
94	MH15X	4	Settled deposits, fine, 25% cross-sectional area loss
100	MH21X	4	Multiple defects
103	MH22X	4	Settled deposits, fine, 20% cross-sectional area loss, finish
107	MH23X	4	Settled deposits, fine, 25% cross-sectional area loss, finish
111	RWG90X	3	Settled deposits, fine, 15% cross-sectional area loss, finish
113	RWG92X	4	Joint displaced, large
114	RWG89X	4	Joint displaced, large

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Abandoned Surveys

Section	PLR	Description
4	RWG9X	Survey abandoned
5	RWG10X	Survey abandoned
6	RWG11X	Survey abandoned
9	RWG6X	Survey abandoned
10	Branch AX	Survey abandoned
11	MH3X	Survey abandoned
12	UpstreamX	Survey abandoned
13	RWG12X	Survey abandoned
14	RWG13X	Survey abandoned
15	RWG14X	Survey abandoned
16	RWG17X	Survey abandoned
17	RWG22X	Survey abandoned
21	MH5X	Survey abandoned
22	Branch CX	Survey abandoned
23	Branch DX	Survey abandoned
24	Branch EX	Survey abandoned
26	UpstreamX	Survey abandoned
27	Branch AX	Survey abandoned
28	Branch CX	Survey abandoned
29	MH7X	Survey abandoned
31	UpstreamX	Survey abandoned
33	MH9X	Survey abandoned
39	RWG26X	Survey abandoned
40	Branch AX	Survey abandoned
41	Branch AX	Survey abandoned
57	UpstreamX	Survey abandoned
64	MH16X	Survey abandoned
65	Branch AX	Survey abandoned
67	Branch BX	Survey abandoned
72	Branch AX	Survey abandoned
73	RWG53X	Survey abandoned
74	RWG54X	Survey abandoned
75	UpstreamX	Survey abandoned
76	RWG41X	Survey abandoned
77	UpstreamX	Survey abandoned
78	RWG40X	Survey abandoned
79	RWG42X	Survey abandoned
80	RWG49X	Survey abandoned
81	RWG58X	Survey abandoned
82	Branch AX	Survey abandoned
83	RWG56X	Survey abandoned

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Section	PLR	Description
84	RWG57X	Survey abandoned
85	RWG59X	Survey abandoned
86	RWG84X	Survey abandoned
87	Branch BX	Survey abandoned
88	UpstreamX	Survey abandoned
89	RWG59X	Survey abandoned
90	UpstreamX	Survey abandoned
91	RWG73X	Survey abandoned
93	RWG83X	Survey abandoned
94	MH15X	Survey abandoned
95	UpstreamX	Survey abandoned
96	Branch AX	Survey abandoned
98	UpstreamX	Survey abandoned
99	Branch AX	Survey abandoned
100	MH21X	Survey abandoned
101	UpstreamX	Survey abandoned
102	Branch AX	Survey abandoned
103	MH22X	Survey abandoned
104	UpstreamX	Survey abandoned

Information

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

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Pipe Summary

No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
1	SEC	Branch AX	BRANCH A	MH2	Swains Lane	Highgate	S	PVC	Circular 100mm	8.54 m
2	SEC	MH2X	MH2	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	4.99 m
3	SEC	RWG8X	RWG8	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 150mm	1.92 m
4	SEC	RWG9X	RWG9	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
5	SEC	RWG10X	RWG10	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.57 m
6	SEC	RWG11X	RWG11	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 150mm	2.30 m
7	SEC	RWG1X	RWG1	MH1	Swains Lane	Highgate	S	VC	Circular 100mm	0.86 m
8	SEC	RWG3X	RWG3	MH2	Swains Lane	Highgate	S	PVC	Circular 100mm	10.58 m
9	SEC	RWG6X	RWG6	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 150mm	0.96 m
10	SEC	Branch AX	BRANCH A	MH3	Swains Lane	Highgate	S	VC	Circular 300mm	8.16 m
11	SEC	MH3X	MH3	DOWNSTREAM	Swains Lane	Highgate	S	BR	Circular 350mm	0.65 m
12	SEC	UpstreamX	UPSTREAM	MH3	Swains Lane	Highgate	S	BR	Circular 350mm	1.41 m
13	SEC	RWG12X	RWG12	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 150mm	3.07 m
14	SEC	RWG13X	RWG13	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
15	SEC	RWG14X	RWG14	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.67 m
16	SEC	RWG17X	RWG17	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.01 m
17	SEC	RWG22X	RWG22	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
18	SEC	RWG24X	RWG24	MH4	Swains Lane	Highgate	S	PVC	Circular 100mm	2.11 m
19	SEC	MH3X	MH3	MH5 BRANCH B	Swains Lane	Highgate	S	CO	Circular 300mm	11.15 m
20	SEC	Branch AX	BRANCH A	MH5	Swains Lane	Highgate	S	PVC	Circular 150mm	1.44 m
21	SEC	MH5X	MH5	DOWNSTREAM	Swains Lane	Highgate	S	CO	Circular 300mm	18.83 m
22	SEC	Branch CX	BRANCH C	MH5	Swains Lane	Highgate	S	PVC	Circular 150mm	0.38 m
23	SEC	Branch DX	BRANCH D	MH5	Swains Lane	Highgate	S	CO	Circular 300mm	0.48 m
24	SEC	Branch EX	BRANCH E	MH5	Swains Lane	Highgate	S	PVC	Circular 150mm	3.16 m
25	SEC	MH6X	MH6	MH7	Swains Lane	Highgate	S	CO	Circular 300mm	22.99 m
26	SEC	UpstreamX	UPSTREAM	MH6	Swains Lane	Highgate	S	CO	Circular 300mm	13.72 m
27	SEC	Branch AX	BRANCH A	MH7	Swains Lane	Highgate	S	CO	Circular 300mm	8.94 m
28	SEC	Branch CX	BRANCH C	MH7	Swains Lane	Highgate	S	PVC	Circular 100mm	0.09 m
29	SEC	MH7X	MH7	DOWNSTREAM	Swains Lane	Highgate	S	CO	Circular 400mm	31.74 m
30	SEC	MH8X	MH8	DOWNSTREAM	Swains Lane	Highgate	S	CO	Circular 400mm	7.25 m

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No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
31	SEC	UpstreamX	UPSTREAM	MH8	Swains Lane	Highgate	S	CO	Circular 400mm	18.10 m
32	SEC	Branch AX	BRANCH A	MH9	Swains Lane	Highgate	S	PVC	Circular 100mm	0.67 m
33	SEC	MH9X	MH9	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	0.38 m
34	SEC	UpstreamX	UPSTREAM	MH9	Swains Lane	Highgate	S	PVC	Circular 100mm	3.55 m
35	SEC	RWG27X	RWG27	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 150mm	1.15 m
36	SEC	RWG28X	RWG28	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	1.72 m
37	SEC	RWG29X	RWG29	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	1.34 m
38	SEC	RWG30X	RWG30	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	1.34 m
39	SEC	RWG26X	RWG26	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	1.72 m
40	SEC	Branch AX	BRANCH A	MH1	Swains Lane	Highgate	C	VC	Circular 150mm	0.01 m
41	SEC	Branch AX	BRANCH A	MH10	Swains Lane	Highgate	C	VC	Circular 100mm	1.82 m
42	SEC	Branch BX	BRANCH B	MH10	Swains Lane	Highgate	S	VC	Circular 100mm	0.67 m
43	SEC	Branch CX	BRANCH C	MH10	Swains Lane	Highgate	S	VC	Circular 100mm	2.11 m
44	SEC	Branch DX	BRANCH D	MH10	Swains Lane	Highgate	C	PVC	Circular 100mm	0.28 m
45	SEC	MH10X	MH10	DOWNSTREAM	Swains Lane	Highgate	C	VC	Circular 100mm	5.76 m
46	SEC	Branch AX	BRANCH A	MH11	Swains Lane	Highgate	S	PVC	Circular 100mm	0.01 m
47	SEC	Branch BX	BRANCH B	MH11	Swains Lane	Highgate	S	PVC	Circular 100mm	18.75 m
48	SEC	MH11X	MH11	MH13	Swains Lane	Highgate	S	PVC	Circular 100mm	3.07 m
49	SEC	MH12X	MH12	MH11	Swains Lane	Highgate	S	PVC	Circular 100mm	26.75 m
50	SEC	UpstreamX	UPSTREAM	MH12	Swains Lane	Highgate	C	VC	Circular 100mm	2.78 m
51	SEC	Branch AX	BRANCH A	MH14	Swains Lane	Highgate	S	VC	Circular 100mm	1.34 m
52	SEC	Branch BX	BRANCH B	MH14	Swains Lane	Highgate	S	VC	Circular 100mm	2.11 m
53	SEC	MH14X	MH14	MH13	Swains Lane	Highgate	C	VC	Circular 100mm	0.76 m
54	SEC	RWG31X	RWG31	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.01 m
55	SEC	RWG32X	RWG32	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.09 m
56	SEC	UpstreamX	UPSTREAM	RWG31	Swains Lane	Highgate	S	PVC	Circular 100mm	1.53 m
57	SEC	UpstreamX	UPSTREAM	RWG32	Swains Lane	Highgate	S	VC	Circular 100mm	0.38 m
58	SEC	RWG35X	RWG35	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	7.20 m
59	SEC	RWG34X	RWG34	RWG35	Swains Lane	Highgate	S	PVC	Circular 100mm	6.33 m
60	SEC	RWG36X	RWG36	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	0.48 m
61	SEC	RWG37X	RWG37	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	2.01 m
62	SEC	MH17X	MH17	MH16	Swains Lane	Highgate	S	PVC	Circular 100mm	3.16 m

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63	SEC	Branch BX	BRANCH B	MH16	Swains Lane	Highgate	S	PVC	Circular 100mm	3.74 m
64	SEC	MH16X	MH16	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	0.57 m
65	SEC	Branch AX	BRANCH A	MH17	Swains Lane	Highgate	S	PVC	Circular 100mm	5.28 m
66	SEC	Branch AX	BRANCH A	MH18	Swains Lane	Highgate	C	PVC	Circular 100mm	1.44 m
67	SEC	Branch BX	BRANCH B	MH18	Swains Lane	Highgate	S	PVC	Circular 100mm	0.09 m
68	SEC	MH18X	MH18	MH19	Swains Lane	Highgate	C	PVC	Circular 100mm	3.36 m
69	SEC	UpstreamX	UPSTREAM	MH18	Swains Lane	Highgate	C	PVC	Circular 100mm	0.28 m
70	SEC	Branch AX	BRANCH A	MH19	Swains Lane	Highgate	C	PVC	Circular 100mm	1.24 m
71	SEC	MH19X	MH19	DOWNSTREAM	Swains Lane	Highgate	C	VC	Circular 100mm	3.45 m
72	SEC	Branch AX	BRANCH A	RWG53	Swains Lane	Highgate	S	VC	Circular 100mm	0.01 m
73	SEC	RWG53X	RWG53	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.48 m
74	SEC	RWG54X	RWG54	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.28 m
75	SEC	UpstreamX	UPSTREAM	RWG54	Swains Lane	Highgate	S	VC	Circular 100mm	1.63 m
76	SEC	RWG41X	RWG41	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 80mm	0.09 m
77	SEC	UpstreamX	UPSTREAM	RWG41	Swains Lane	Highgate	S	VC	Circular 100mm	0.28 m
78	SEC	RWG40X	RWG40	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.01 m
79	SEC	RWG42X	RWG42	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	4.22 m
80	SEC	RWG49X	RWG49	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	1.63 m
81	SEC	RWG58X	RWG58	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	2.01 m
82	SEC	Branch AX	BRANCH A	RWG56	Swains Lane	Highgate	S	VC	Circular 100mm	0.67 m
83	SEC	RWG56X	RWG56	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	6.62 m
84	SEC	RWG57X	RWG57	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	1.05 m
85	SEC	RWG59X	RWG59	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	1.82 m
86	SEC	RWG84X	RWG84	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 80mm	0.19 m
87	SEC	Branch BX	BRANCH B	RWG56	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
88	SEC	UpstreamX	UPSTREAM	RWG58	Swains Lane	Highgate	S	VC	Circular 100mm	0.09 m
89	SEC	RWG59X	RWG59	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 80mm	0.09 m
90	SEC	UpstreamX	UPSTREAM	RWG59	Swains Lane	Highgate	S	VC	Circular 100mm	2.01 m
91	SEC	RWG73X	RWG73	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 80mm	0.09 m
92	SEC	RWG75X	RWG75	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 80mm	0.28 m
93	SEC	RWG83X	RWG83	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 80mm	0.19 m
94	SEC	MH15X	MH15	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	1.82 m

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No.	Type	PLR	Upstream Node	Downstream Node	Road	Town	Use	Mat.	Profile	Length
95	SEC	UpstreamX	UPSTREAM	MH15	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
96	SEC	Branch AX	BRANCH A	MH20	Swains Lane	Highgate	S	VC	Circular 100mm	5.18 m
97	SEC	MH20X	MH20	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 225mm	0.28 m
98	SEC	UpstreamX	UPSTREAM	MH20	Swains Lane	Highgate	S	VC	Circular 225mm	11.02 m
99	SEC	Branch AX	BRANCH A	MH21	Swains Lane	Highgate	S	VC	Circular 100mm	1.23 m
100	SEC	MH21X	MH21	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 150mm	5.56 m
101	SEC	UpstreamX	UPSTREAM	MH21	Swains Lane	Highgate	S	VC	Circular 100mm	8.99 m
102	SEC	Branch AX	BRANCH A	MH22	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
103	SEC	MH22X	MH22	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 225mm	19.37 m
104	SEC	UpstreamX	UPSTREAM	MH22	Swains Lane	Highgate	S	VC	Circular 225mm	4.99 m
105	SEC	Branch AX	BRANCH A	MH23	Swains Lane	Highgate	S	VC	Circular 100mm	1.05 m
106	SEC	Branch BX	BRANCH B	MH23	Swains Lane	Highgate	S	VC	Circular 100mm	0.76 m
107	SEC	MH23X	MH23	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	2.11 m
108	SEC	Branch AX	BRANCH A	MH24	Swains Lane	Highgate	S	BR	Circular 150mm	2.97 m
109	SEC	Branch BX	BRANCH B	MH24	Swains Lane	Highgate	S	BR	Circular 150mm	0.01 m
110	SEC	Branch CX	BRANCH C	MH24	Swains Lane	Highgate	S	BR	Circular 150mm	1.63 m
111	SEC	RWG90X	RWG90	DOWNSTREAM	Swains Lane	Highgate	S	PVC	Circular 100mm	14.66 m
112	SEC	RWG91X	RWG91	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.09 m
113	SEC	RWG92X	RWG92	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.76 m
114	SEC	RWG89X	RWG89	DOWNSTREAM	Swains Lane	Highgate	S	VC	Circular 100mm	0.19 m
115	SEC	Branch AX	BRANCH A	MH21	Swains Lane	Highgate	S	PVC	Circular 100mm	0.75 m
									Total:	**412.10 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	Branch AX	BRANCH A			0.000 m	MH2			0.520 m
2	MH2X	MH2			0.520 m	DOWNSTREAM			0.000 m
3	RWG8X	RWG8			0.000 m	DOWNSTREAM			0.000 m
4	RWG9X	RWG9			0.000 m	DOWNSTREAM			0.000 m

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No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
5	RWG10X	RWG10			0.000 m	DOWNSTREAM			0.000 m
6	RWG11X	RWG11			0.000 m	DOWNSTREAM			0.000 m
7	RWG1X	RWG1			0.450 m	MH1			0.000 m
8	RWG3X	RWG3			0.280 m	MH2			0.000 m
9	RWG6X	RWG6			0.000 m	DOWNSTREAM			0.000 m
10	Branch AX	BRANCH A			0.000 m	MH3			1.000 m
11	MH3X	MH3			1.000 m	DOWNSTREAM			0.000 m
12	UpstreamX	UPSTREAM			0.000 m	MH3			1.000 m
13	RWG12X	RWG12			0.000 m	DOWNSTREAM			0.000 m
14	RWG13X	RWG13			0.900 m	DOWNSTREAM			0.000 m
15	RWG14X	RWG14			0.900 m	DOWNSTREAM			0.000 m
16	RWG17X	RWG17			0.800 m	DOWNSTREAM			0.000 m
17	RWG22X	RWG22			0.300 m	DOWNSTREAM			0.000 m
18	RWG24X	RWG24			0.000 m	MH4			0.000 m
19	MH3X	MH3			0.000 m	MH5 BRANCH B			0.000 m
20	Branch AX	BRANCH A			0.000 m	MH5			1.070 m
21	MH5X	MH5			1.070 m	DOWNSTREAM			0.000 m
22	Branch CX	BRANCH C			0.000 m	MH5			1.070 m
23	Branch DX	BRANCH D			0.000 m	MH5			1.070 m
24	Branch EX	BRANCH E			0.000 m	MH5			1.070 m
25	MH6X	MH6			1.600 m	MH7			0.000 m
26	UpstreamX	UPSTREAM			0.000 m	MH6			1.600 m
27	Branch AX	BRANCH A			0.000 m	MH7			2.190 m
28	Branch CX	BRANCH C			0.000 m	MH7			0.000 m
29	MH7X	MH7			2.190 m	DOWNSTREAM			0.000 m
30	MH8X	MH8			1.500 m	DOWNSTREAM			0.000 m
31	UpstreamX	UPSTREAM			0.000 m	MH8			1.500 m
32	Branch AX	BRANCH A			0.000 m	MH9			0.600 m
33	MH9X	MH9			0.600 m	DOWNSTREAM			0.000 m
34	UpstreamX	UPSTREAM			0.000 m	MH9			0.600 m
35	RWG27X	RWG27			0.000 m	DOWNSTREAM			0.000 m
36	RWG28X	RWG28			0.000 m	DOWNSTREAM			0.000 m

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No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
37	RWG29X	RWG29			0.000 m	DOWNSTREAM			0.000 m
38	RWG30X	RWG30			0.000 m	DOWNSTREAM			0.000 m
39	RWG26X	RWG26			0.000 m	DOWNSTREAM			0.000 m
40	Branch AX	BRANCH A			0.000 m	MH1			5.150 m
41	Branch AX	BRANCH A			0.000 m	MH10			0.800 m
42	Branch BX	BRANCH B			0.000 m	MH10			0.000 m
43	Branch CX	BRANCH C			0.000 m	MH10			0.000 m
44	Branch DX	BRANCH D			0.000 m	MH10			0.800 m
45	MH10X	MH10			0.800 m	DOWNSTREAM			0.000 m
46	Branch AX	BRANCH A			0.000 m	MH11			0.570 m
47	Branch BX	BRANCH B			0.000 m	MH11			0.570 m
48	MH11X	MH11			0.570 m	MH13			0.000 m
49	MH12X	MH12			0.000 m	MH11			0.570 m
50	UpstreamX	UPSTREAM			0.000 m	MH12			0.400 m
51	Branch AX	BRANCH A			0.000 m	MH14			0.680 m
52	Branch BX	BRANCH B			0.000 m	MH14			0.680 m
53	MH14X	MH14			0.680 m	MH13			0.000 m
54	RWG31X	RWG31			0.000 m	DOWNSTREAM			0.000 m
55	RWG32X	RWG32			0.000 m	DOWNSTREAM			0.000 m
56	UpstreamX	UPSTREAM			0.000 m	RWG31			0.000 m
57	UpstreamX	UPSTREAM			0.000 m	RWG32			0.000 m
58	RWG35X	RWG35			0.000 m	DOWNSTREAM			0.000 m
59	RWG34X	RWG34			0.000 m	RWG35			0.000 m
60	RWG36X	RWG36			0.000 m	DOWNSTREAM			0.000 m
61	RWG37X	RWG37			0.000 m	DOWNSTREAM			0.000 m
62	MH17X	MH17			0.000 m	MH16			1.060 m
63	Branch BX	BRANCH B			0.000 m	MH16			1.060 m
64	MH16X	MH16			1.060 m	DOWNSTREAM			0.000 m
65	Branch AX	BRANCH A			0.000 m	MH17			0.400 m
66	Branch AX	BRANCH A			0.000 m	MH18			0.430 m
67	Branch BX	BRANCH B			0.000 m	MH18			0.430 m
68	MH18X	MH18			0.430 m	MH19			0.000 m

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No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
69	UpstreamX	UPSTREAM			0.000 m	MH18			0.430 m
70	Branch AX	BRANCH A			0.000 m	MH19			0.800 m
71	MH19X	MH19			0.800 m	DOWNSTREAM			0.000 m
72	Branch AX	BRANCH A			0.000 m	RWG53			0.000 m
73	RWG53X	RWG53			0.000 m	DOWNSTREAM			0.000 m
74	RWG54X	RWG54			0.000 m	DOWNSTREAM			0.000 m
75	UpstreamX	UPSTREAM			0.000 m	RWG54			0.000 m
76	RWG41X	RWG41			0.000 m	DOWNSTREAM			0.000 m
77	UpstreamX	UPSTREAM			0.000 m	RWG41			0.000 m
78	RWG40X	RWG40			0.000 m	DOWNSTREAM			0.000 m
79	RWG42X	RWG42			0.000 m	DOWNSTREAM			0.000 m
80	RWG49X	RWG49			0.000 m	DOWNSTREAM			0.000 m
81	RWG58X	RWG58			0.000 m	DOWNSTREAM			0.000 m
82	Branch AX	BRANCH A			0.000 m	RWG56			0.000 m
83	RWG56X	RWG56			0.000 m	DOWNSTREAM			0.000 m
84	RWG57X	RWG57			0.000 m	DOWNSTREAM			0.000 m
85	RWG59X	RWG59			0.000 m	DOWNSTREAM			0.000 m
86	RWG84X	RWG84			0.000 m	DOWNSTREAM			0.000 m
87	Branch BX	BRANCH B			0.000 m	RWG56			0.000 m
88	UpstreamX	UPSTREAM			0.000 m	RWG58			0.000 m
89	RWG59X	RWG59			0.000 m	DOWNSTREAM			0.000 m
90	UpstreamX	UPSTREAM			0.000 m	RWG59			0.000 m
91	RWG73X	RWG73			0.000 m	DOWNSTREAM			0.000 m
92	RWG75X	RWG75			0.000 m	DOWNSTREAM			0.000 m
93	RWG83X	RWG83			0.000 m	DOWNSTREAM			0.000 m
94	MH15X	MH15			4.100 m	DOWNSTREAM			0.000 m
95	UpstreamX	UPSTREAM			0.000 m	MH15			4.100 m
96	Branch AX	BRANCH A			0.000 m	MH20			3.300 m
97	MH20X	MH20			3.300 m	DOWNSTREAM			0.000 m
98	UpstreamX	UPSTREAM			0.000 m	MH20			3.300 m
99	Branch AX	BRANCH A			0.000 m	MH21			0.500 m
100	MH21X	MH21			0.500 m	DOWNSTREAM			0.000 m

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No.	PLR	Upstream Node	Upstream C.L.	Upstream I.L.	Upstream I.D.	Downstream Node	Downstream C.L.	Downstream I.L.	Downstream I.D.
101	UpstreamX	UPSTREAM			0.000 m	MH21			0.500 m
102	Branch AX	BRANCH A			0.000 m	MH22			4.340 m
103	MH22X	MH22			4.320 m	DOWNSTREAM			0.000 m
104	UpstreamX	UPSTREAM			0.000 m	MH22			4.340 m
105	Branch AX	BRANCH A			0.000 m	MH23			0.670 m
106	Branch BX	BRANCH B			0.000 m	MH23			0.670 m
107	MH23X	MH23			0.670 m	DOWNSTREAM			0.000 m
108	Branch AX	BRANCH A			0.000 m	MH24			2.950 m
109	Branch BX	BRANCH B			0.000 m	MH24			2.950 m
110	Branch CX	BRANCH C			0.000 m	MH24			2.950 m
111	RWG90X	RWG90			0.000 m	DOWNSTREAM			0.000 m
112	RWG91X	RWG91			0.000 m	DOWNSTREAM			0.000 m
113	RWG92X	RWG92			0.000 m	DOWNSTREAM			0.000 m
114	RWG89X	RWG89			0.000 m	DOWNSTREAM			0.000 m
115	Branch AX	BRANCH A			0.000 m	MH21			0.500 m

Pipe Summary by Profile

Profile	Total Length	No. Pipes
Circular 100mm	8.54 m	
Circular 100mm	4.99 m	
Circular 100mm	0.19 m	
Circular 100mm	0.57 m	
Circular 100mm	0.86 m	
Circular 100mm	10.58 m	
Circular 100mm	0.19 m	
Circular 100mm	0.67 m	
Circular 100mm	0.01 m	
Circular 100mm	0.19 m	
Circular 100mm	2.11 m	
Circular 100mm	0.09 m	
Circular 100mm	0.67 m	
Circular 100mm	0.38 m	
Circular 100mm	3.55 m	
Circular 100mm	1.72 m	
Circular 100mm	1.34 m	
Circular 100mm	1.34 m	

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Project Name	Project Number	Project Date
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Profile	Total Length	No. Pipes
Circular 100mm	1.72 m	
Circular 100mm	1.82 m	
Circular 100mm	0.67 m	
Circular 100mm	2.11 m	
Circular 100mm	0.28 m	
Circular 100mm	5.76 m	
Circular 100mm	0.01 m	
Circular 100mm	18.75 m	
Circular 100mm	3.07 m	
Circular 100mm	26.75 m	
Circular 100mm	2.78 m	
Circular 100mm	1.34 m	
Circular 100mm	2.11 m	
Circular 100mm	0.76 m	
Circular 100mm	0.01 m	
Circular 100mm	0.09 m	
Circular 100mm	1.53 m	
Circular 100mm	0.38 m	
Circular 100mm	7.20 m	
Circular 100mm	6.33 m	
Circular 100mm	0.48 m	
Circular 100mm	2.01 m	
Circular 100mm	3.16 m	
Circular 100mm	3.74 m	
Circular 100mm	0.57 m	
Circular 100mm	5.28 m	
Circular 100mm	1.44 m	
Circular 100mm	0.09 m	
Circular 100mm	3.36 m	
Circular 100mm	0.28 m	
Circular 100mm	1.24 m	
Circular 100mm	3.45 m	
Circular 100mm	0.01 m	
Circular 100mm	0.48 m	
Circular 100mm	0.28 m	
Circular 100mm	1.63 m	
Circular 100mm	0.28 m	
Circular 100mm	0.01 m	
Circular 100mm	4.22 m	
Circular 100mm	1.63 m	
Circular 100mm	2.01 m	
Circular 100mm	0.67 m	
Circular 100mm	6.62 m	
Circular 100mm	1.05 m	
Circular 100mm	1.82 m	

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Profile		Total Length	No. Pipes
Circular 100mm		0.19 m	
Circular 100mm		0.09 m	
Circular 100mm		2.01 m	
Circular 100mm		1.82 m	
Circular 100mm		0.19 m	
Circular 100mm		5.18 m	
Circular 100mm		1.23 m	
Circular 100mm		8.99 m	
Circular 100mm		0.19 m	
Circular 100mm		1.05 m	
Circular 100mm		0.76 m	
Circular 100mm		2.11 m	
Circular 100mm		14.66 m	
Circular 100mm		0.09 m	
Circular 100mm		0.76 m	
Circular 100mm		0.19 m	
Circular 100mm		0.75 m	
Circular 100mm	=	207.53 m	80
Circular 150mm		1.92 m	
Circular 150mm		2.30 m	
Circular 150mm		0.96 m	
Circular 150mm		3.07 m	
Circular 150mm		1.44 m	
Circular 150mm		0.38 m	
Circular 150mm		3.16 m	
Circular 150mm		1.15 m	
Circular 150mm		0.01 m	
Circular 150mm		5.56 m	
Circular 150mm		2.97 m	
Circular 150mm		0.01 m	
Circular 150mm		1.63 m	
Circular 150mm	=	24.56 m	13
Circular 225mm		0.28 m	
Circular 225mm		11.02 m	
Circular 225mm		19.37 m	
Circular 225mm		4.99 m	
Circular 225mm	=	35.66 m	4
Circular 300mm		8.16 m	
Circular 300mm		11.15 m	
Circular 300mm		18.83 m	
Circular 300mm		0.48 m	
Circular 300mm		22.99 m	
Circular 300mm		13.72 m	

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Profile		Total Length	No. Pipes
Circular 300mm		8.94 m	
Circular 300mm	=	84.27 m	7
Circular 350mm Circular 350mm		0.65 m 1.41 m	
Circular 350mm	=	2.06 m	2
Circular 400mm Circular 400mm Circular 400mm		31.74 m 7.25 m 18.10 m	
Circular 400mm	=	57.09 m	3
Circular 80mm Circular 80mm Circular 80mm Circular 80mm Circular 80mm Circular 80mm		0.09 m 0.19 m 0.09 m 0.09 m 0.28 m 0.19 m	
Circular 80mm	=	0.93 m	6
Total	**=**	**412.10 m**	**115**

Inspection Summary

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
1	1	BRANCH A	MH2	US	Tom Holman	06/03/2024	14:23	1	5	GYF, RWG3	8.54 m
2	1	MH2	DOWNSTREAM	DS	Tom Holman	06/03/2024	14:27	1	5	GYF	4.99 m
3	1	RWG8	DOWNSTREAM	DS	Tom Holman	06/03/2024	14:29	1	5	MHF, Blind Junction	1.92 m
4	**1**	**RWG9**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:31**	**1**	**5**	**SA, Camera unable to pass debris**	**0.19 m**
5	**1**	**RWG10**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:33**	**1**	**5**	**SA, Loss of vision due to debris**	**0.57 m**
6	**1**	**RWG11**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:34**	**1**	**4**	**SA, Loss of vision due to debris**	**2.30 m**
7	1	RWG1	MH1	DS	Tom Holman	06/03/2024	14:36	1	5	MHF	0.86 m
8	1	RWG3	MH2	DS	Tom Holman	06/03/2024	14:40	1	4	MHF	10.58 m
9	**1**	**RWG6**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:41**	**4**	**5**	**SA, Camera unable to push further**	**0.96 m**
10	**1**	**BRANCH A**	**MH3**	**US**	**Tom Holman**	**06/03/2024**	**14:43**	**1**	**2**	**SA, Camera unable to pass debris**	**8.16 m**
11	**1**	**MH3**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:45**	**1**	**1**	**SA, Camera unable to push further**	**0.65 m**
12	**1**	**UPSTREAM**	**MH3**	**US**	**Tom Holman**	**06/03/2024**	**14:47**	**1**	**5**	**SA, Camera unable to push further**	**1.41 m**

KD Drainage and Asbestos
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Project Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
13	**1**	**RWG12**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:50**	**1**	**4**	**SA, Camera unable to pass debris**	**3.07 m**
14	**1**	**RWG13**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:51**	**1**	**5**	**SA, Camera unable to pass debris**	**0.19 m**
15	**1**	**RWG14**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:52**	**1**	**5**	**SA, Loss of vision due to debris**	**0.67 m**
16	**1**	**RWG17**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:55**	**1**	**5**	**SA, Camera unable to pass debris**	**0.01 m**
17	**1**	**RWG22**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**14:57**	**1**	**5**	**SA, Camera unable to push further**	**0.19 m**
18	1	RWG24	MH4	DS	Tom Holman	06/03/2024	14:58	1	1	MHF	2.11 m
19	1	MH3	MH5 BRANCH B	DS	Tom Holman	06/03/2024	15:00	1	4	MHF	11.15 m
20	1	BRANCH A	MH5	US	Tom Holman	06/03/2024	15:02	1	5	GYF	1.44 m
21	**1**	**MH5**	**DOWNSTREAM**	**DS**	**Tom Holman**	**06/03/2024**	**15:03**	**1**	**4**	**SA, Camera unable to push further**	**18.83 m**
22	**1**	**BRANCH C**	**MH5**	**US**	**Tom Holman**	**06/03/2024**	**15:04**	**1**	**5**	**SA, Further investigation required**	**0.38 m**
23	**1**	**BRANCH D**	**MH5**	**US**	**Tom Holman**	**06/03/2024**	**15:05**	**1**	**5**	**SA, Camera unable to pass debris**	**0.48 m**
24	**1**	**BRANCH E**	**MH5**	**US**	**Tom Holman**	**06/03/2024**	**15:07**	**1**	**4**	**SA, Camera unable to pass debris**	**3.16 m**
25	1	MH6	MH7	DS	Tom Holman	06/03/2024	15:08	1	5	MHF	22.99 m
26	**1**	**UPSTREAM**	**MH6**	**US**	**Tom Holman**	**06/03/2024**	**15:10**	**1**	**3**	**SA, Camera unable to debris**	**13.72 m**
27	**1**	**BRANCH A**	**MH7**	**US**	**Tom Holman**	**07/03/2024**	**9:23**	**1**	**3**	**SA, Loss of vision due to debris**	**8.94 m**
28	**1**	**BRANCH C**	**MH7**	**US**	**Tom Holman**	**07/03/2024**	**9:25**	**1**	**5**	**SA, Disused**	**0.09 m**
29	**1**	**MH7**	**DOWNSTREAM**	**DS**	**Tom Holman**	**07/03/2024**	**9:51**	**1**	**5**	**SA, Camera unable to push further**	**31.74 m**
30	1	MH8	DOWNSTREAM	DS	Tom Holman	07/03/2024	9:52	1	5	MHF, Unknown Chamber	7.25 m
31	**1**	**UPSTREAM**	**MH8**	**US**	**Tom Holman**	**07/03/2024**	**9:54**	**1**	**4**	**SA, Camera unable to push further**	**18.10 m**
32	1	BRANCH A	MH9	US	Tom Holman	07/03/2024	9:56	1	4	GYF	0.67 m
33	**1**	**MH9**	**DOWNSTREAM**	**DS**	**Tom Holman**	**07/03/2024**	**9:57**	**1**	**5**	**SA, Camera unable to pass JDL**	**0.38 m**
34	1	UPSTREAM	MH9	US	Tom Holman	07/03/2024	10:00	1	1	GYF	3.55 m
35	1	RWG27	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:01	1	1	MHF, Blind connection	1.15 m
36	1	RWG28	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:24	1	4	MHF, Blind junction	1.72 m
37	1	RWG29	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:26	1	1	MHF, Blind connection	1.34 m
38	1	RWG30	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:28	1	2	MHF, Blind junction	1.34 m
39	**1**	**RWG26**	**DOWNSTREAM**	**DS**	**Tom Holman**	**07/03/2024**	**10:29**	**1**	**4**	**SA, Camera unable to pass OJL/JDL**	**1.72 m**
40	**1**	**BRANCH A**	**MH1**	**US**	**Tom Holman**	**07/03/2024**	**10:30**	**1**	**1**	**SA, Redundant**	**0.01 m**
41	**1**	**BRANCH A**	**MH10**	**US**	**Tom Holman**	**07/03/2024**	**10:31**	**4**	**5**	**SA, Camera unable to pass debris**	**1.82 m**
42	1	BRANCH B	MH10	US	Tom Holman	07/03/2024	10:33	4	4	MHF, Capped	0.67 m
43	1	BRANCH C	MH10	US	Tom Holman	07/03/2024	10:34	1	4	MHF, Rest bend	2.11 m

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Highgate Cemetery		06/03/2024

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
44	1	BRANCH D	MH10	US	Tom Holman	07/03/2024	10:35	1	5	MHF, Vent pipe	0.28 m
45	1	MH10	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:36	1	3	MHF	5.76 m
46	1	BRANCH A	MH11	US	Tom Holman	07/03/2024	10:37	1	1	MHF	0.01 m
47	1	BRANCH B	MH11	US	Tom Holman	07/03/2024	10:48	1	4	MHF, Aco	18.75 m
48	1	MH11	MH13	DS	Tom Holman	07/03/2024	10:49	1	4	MHF	3.07 m
49	1	MH12	MH11	US	Tom Holman	07/03/2024	10:50	1	2	MHF	26.75 m
50	1	UPSTREAM	MH12	US	Tom Holman	07/03/2024	10:51	1	1	MHF, Stack	2.78 m
51	1	BRANCH A	MH14	US	Tom Holman	07/03/2024	10:52	5	5	MHF, Redundant	1.34 m
52	1	BRANCH B	MH14	US	Tom Holman	07/03/2024	10:53	4	3	MHF, Redundant	2.11 m
53	1	MH14	MH13	DS	Tom Holman	07/03/2024	10:53	1	5	MHF	0.76 m
54	1	RWG31	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:54	1	1	MHF, Trap	0.01 m
55	1	RWG32	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:55	1	1	MHF, Trap	0.09 m
56	1	UPSTREAM	RWG31	US	Tom Holman	07/03/2024	10:56	1	1	MHF, Aco	1.53 m
57	**1**	**UPSTREAM**	**RWG32**	**US**	**Tom Holman**	**07/03/2024**	**10:57**	**2**	**5**	**SA, Camera unable to pass debris**	**0.38 m**
58	1	RWG35	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:58	1	4	MHF, Aco	7.20 m
59	1	RWG34	RWG35	US	Tom Holman	07/03/2024	10:58	1	1	GYF	6.33 m
60	1	RWG36	DOWNSTREAM	DS	Tom Holman	07/03/2024	10:59	1	1	MHF, Blind junction	0.48 m
61	1	RWG37	DOWNSTREAM	DS	Tom Holman	07/03/2024	11:00	1	1	MHF, Blind junction	2.01 m
62	1	MH17	MH16	US	Tom Holman	07/03/2024	11:28	1	5	OBZ, Hose in pipe	0.00 m
63	1	BRANCH B	MH16	US	Tom Holman	07/03/2024	11:35	1	4	GYF	3.74 m
64	**1**	**MH16**	**DOWNSTREAM**	**DS**	**Tom Holman**	**07/03/2024**	**11:38**	**1**	**1**	**SA, Loss of vision**	**0.57 m**
65	**1**	**BRANCH A**	**MH17**	**US**	**Tom Holman**	**07/03/2024**	**11:40**	**1**	**3**	**SA, Camera unable to pass obstruction/Hose in p**	**5.28 m**
66	1	BRANCH A	MH18	US	Tom Holman	07/03/2024	11:41	1	1	MHF, W C	1.44 m
67	**1**	**BRANCH B**	**MH18**	**US**	**Tom Holman**	**07/03/2024**	**11:43**	**1**	**5**	**SA, Camera unable to pass obstruction**	**0.09 m**
68	1	MH18	MH19	DS	Tom Holman	07/03/2024	11:44	1	1	MHF	3.36 m
69	1	UPSTREAM	MH18	US	Tom Holman	07/03/2024	11:46	1	1	REF	0.28 m
70	1	BRANCH A	MH19	US	Tom Holman	07/03/2024	11:48	1	1	MHF, Reducer	1.24 m
71	1	MH19	DOWNSTREAM	DS	Tom Holman	07/03/2024	11:50	1	3	MHF, MH in Road	3.45 m
72	**1**	**BRANCH A**	**RWG53**	**US**	**Tom Holman**	**07/03/2024**	**11:55**	**1**	**5**	**SA, Camera unable to pass mass roots/Possibly ı**	**0.01 m**
73	**1**	**RWG53**	**DOWNSTREAM**	**DS**	**Tom Holman**	**07/03/2024**	**11:57**	**1**	**1**	**SA, Camera under water/Surcharged**	**0.48 m**
74	**1**	**RWG54**	**DOWNSTREAM**	**DS**	**Tom Holman**	**07/03/2024**	**11:59**	**1**	**5**	**SA, Camera unable to pass mass roots**	**0.28 m**
75	**1**	**UPSTREAM**	**RWG54**	**US**	**Tom Holman**	**07/03/2024**	**12:40**	**1**	**4**	**SA, Camera under water**	**1.63 m**

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Highgate Cemetery		06/03/2024

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
76	1	RWG41	DOWNSTREAM	DS	Tom Holman	07/03/2024	12:42	1	5	SA, Camera unable to pass encrustation	0.09 m
77	1	UPSTREAM	RWG41	US	Tom Holman	07/03/2024	12:44	1	5	SA, Camera unable to pass debris	0.28 m
78	1	RWG40	DOWNSTREAM	DS	Tom Holman	07/03/2024	12:46	1	5	SA, Camera unable to pass debris/Possibly redur	0.01 m
79	1	RWG42	DOWNSTREAM	DS	Tom Holman	07/03/2024	12:48	1	4	SA, Camera unable to pass debris	4.22 m
80	1	RWG49	DOWNSTREAM	DS	Tom Holman	07/03/2024	12:52	1	5	SA, Camera unable to pass roots	1.63 m
81	1	RWG58	DOWNSTREAM	DS	Tom Holman	07/03/2024	12:54	1	5	SA, Camera unable to pass JDL	2.01 m
82	1	BRANCH A	RWG56	US	Tom Holman	07/03/2024	12:56	1	5	SA, Camera under water	0.67 m
83	1	RWG56	DOWNSTREAM	DS	Tom Holman	07/03/2024	12:59	1	5	SA, Loss of vision	6.62 m
84	1	RWG57	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:01	1	5	SA, Camera unable to pass debris	1.05 m
85	1	RWG59	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:02	1	5	SA, Camera under water	1.82 m
86	1	RWG84	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:03	1	5	SA, Camera unable to pass debris	0.19 m
87	1	BRANCH B	RWG56	US	Tom Holman	07/03/2024	13:04	1	5	SA, Camera unable to pass debris	0.19 m
88	1	UPSTREAM	RWG58	US	Tom Holman	07/03/2024	13:06	1	5	SA, Camera unable to pass debris	0.09 m
89	1	RWG59	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:07	1	5	SA, Camera unable to pass debris/Possibly redur	0.09 m
90	1	UPSTREAM	RWG59	US	Tom Holman	07/03/2024	13:08	1	5	SA, Camera unable to pass OJL/Obstruction	2.01 m
91	1	RWG73	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:12	1	5	SA, Camera unable to pass JDL/Debris	0.09 m
92	1	RWG75	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:13	4	1	MHF, Buried MH	0.28 m
93	1	RWG83	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:15	1	5	SA, Camera uable to pass debris	0.19 m
94	1	MH15	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:19	1	4	SA, Loss of vision due to debris	1.82 m
95	1	UPSTREAM	MH15	US	Tom Holman	07/03/2024	13:20	1	5	SA, Loss of vision due to debris	0.19 m
96	1	BRANCH A	MH20	US	Tom Holman	07/03/2024	13:22	5	5	SA, Camera unable to to pass JDL	5.18 m
97	1	MH20	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:28	1	1	MHF, Buried MH	0.28 m
98	1	UPSTREAM	MH20	US	Tom Holman	07/03/2024	13:29	4	4	SA, Loss of vision	11.02 m
99	1	BRANCH A	MH21	US	Tom Holman	07/03/2024	13:30	1	5	SA, Loss of vision due to debris	1.23 m
100	1	MH21	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:34	1	4	SA, Loss of vision due to debris	5.56 m
101	1	UPSTREAM	MH21	US	Tom Holman	07/03/2024	13:35	1	5	SA, Loss of vision due to debris	8.99 m
102	1	BRANCH A	MH22	US	Tom Holman	07/03/2024	13:40	1	1	SA, Loss of vision	0.19 m
103	1	MH22	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:42	4	4	SA, Camera unable to push further due to pipe sz	19.37 m
104	1	UPSTREAM	MH22	US	Tom Holman	07/03/2024	13:42	3	3	SA, Camera unable to push further due to size of	4.99 m
105	1	BRANCH A	MH23	US	Tom Holman	07/03/2024	13:44	1	4	GYF, Gully 87	1.05 m
106	1	BRANCH B	MH23	US	Tom Holman	07/03/2024	13:45	1	1	GYF, Gully 86	0.76 m

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Highgate Cemetery		06/03/2024

Pipe No.	Insp. No.	Upstream Node	Downstream Node	Dir.	Operator	Insp. Date	Insp. Time	Str	Ser	Final Observation	Length
107	1	MH23	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:46	1	5	MHF, Buried MH	2.11 m
108	1	BRANCH A	MH24	US	Tom Holman	07/03/2024	13:46	4	3	MHF, Buried MH	2.97 m
109	1	BRANCH B	MH24	US	Tom Holman	07/03/2024	13:47	1	1	GYF, Gully 88	0.01 m
110	1	BRANCH C	MH24	US	Tom Holman	07/03/2024	13:48	4	3	MHF, Reducer	1.63 m
111	1	RWG90	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:49	1	3	MHF, Capped	14.66 m
112	1	RWG91	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:51	1	1	MHF, Blind junction	0.09 m
113	1	RWG92	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:54	1	5	MHF, Blind junction	0.76 m
114	1	RWG89	DOWNSTREAM	DS	Tom Holman	07/03/2024	13:55	4	5	MHF, Blind junction	0.19 m
115	1	BRANCH A	MH21	US	Tom Holman	07/03/2024	13:56	1	4	GYF	0.75 m
										Total:	**408.94 m**

Inspection Summary by Profile

Profile	Total Length	No. Inspections
Circular 100mm	8.54 m	
Circular 100mm	4.99 m	
Circular 100mm	0.19 m	
Circular 100mm	0.57 m	
Circular 100mm	0.86 m	
Circular 100mm	10.58 m	
Circular 100mm	0.19 m	
Circular 100mm	0.67 m	
Circular 100mm	0.01 m	
Circular 100mm	0.19 m	
Circular 100mm	2.11 m	
Circular 100mm	0.09 m	
Circular 100mm	0.67 m	
Circular 100mm	0.38 m	
Circular 100mm	3.55 m	
Circular 100mm	1.72 m	
Circular 100mm	1.34 m	
Circular 100mm	1.34 m	
Circular 100mm	1.72 m	
Circular 100mm	1.82 m	
Circular 100mm	0.67 m	
Circular 100mm	2.11 m	
Circular 100mm	0.28 m	
Circular 100mm	5.76 m	

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Project Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

Profile	Total Length	No. Inspections
Circular 100mm	0.01 m	
Circular 100mm	18.75 m	
Circular 100mm	3.07 m	
Circular 100mm	26.75 m	
Circular 100mm	2.78 m	
Circular 100mm	1.34 m	
Circular 100mm	2.11 m	
Circular 100mm	0.76 m	
Circular 100mm	0.01 m	
Circular 100mm	0.09 m	
Circular 100mm	1.53 m	
Circular 100mm	0.38 m	
Circular 100mm	7.20 m	
Circular 100mm	6.33 m	
Circular 100mm	0.48 m	
Circular 100mm	2.01 m	
Circular 100mm	0.00 m	
Circular 100mm	3.74 m	
Circular 100mm	0.57 m	
Circular 100mm	5.28 m	
Circular 100mm	1.44 m	
Circular 100mm	0.09 m	
Circular 100mm	3.36 m	
Circular 100mm	0.28 m	
Circular 100mm	1.24 m	
Circular 100mm	3.45 m	
Circular 100mm	0.01 m	
Circular 100mm	0.48 m	
Circular 100mm	0.28 m	
Circular 100mm	1.63 m	
Circular 100mm	0.28 m	
Circular 100mm	0.01 m	
Circular 100mm	4.22 m	
Circular 100mm	1.63 m	
Circular 100mm	2.01 m	
Circular 100mm	0.67 m	
Circular 100mm	6.62 m	
Circular 100mm	1.05 m	
Circular 100mm	1.82 m	
Circular 100mm	0.19 m	
Circular 100mm	0.09 m	
Circular 100mm	2.01 m	
Circular 100mm	1.82 m	
Circular 100mm	0.19 m	
Circular 100mm	5.18 m	

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Project Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

Profile		Total Length	No. Inspections
Circular 100mm		1.23 m	
Circular 100mm		8.99 m	
Circular 100mm		0.19 m	
Circular 100mm		1.05 m	
Circular 100mm		0.76 m	
Circular 100mm		2.11 m	
Circular 100mm		14.66 m	
Circular 100mm		0.09 m	
Circular 100mm		0.76 m	
Circular 100mm		0.19 m	
Circular 100mm		0.75 m	
Circular 100mm	=	204.37 m	79
Circular 150mm		1.92 m	
Circular 150mm		2.30 m	
Circular 150mm		0.96 m	
Circular 150mm		3.07 m	
Circular 150mm		1.44 m	
Circular 150mm		0.38 m	
Circular 150mm		3.16 m	
Circular 150mm		1.15 m	
Circular 150mm		0.01 m	
Circular 150mm		5.56 m	
Circular 150mm		2.97 m	
Circular 150mm		0.01 m	
Circular 150mm		1.63 m	
Circular 150mm	=	24.56 m	13
Circular 225mm		0.28 m	
Circular 225mm		11.02 m	
Circular 225mm		19.37 m	
Circular 225mm		4.99 m	
Circular 225mm	=	35.66 m	4
Circular 300mm		8.16 m	
Circular 300mm		11.15 m	
Circular 300mm		18.83 m	
Circular 300mm		0.48 m	
Circular 300mm		22.99 m	
Circular 300mm		13.72 m	
Circular 300mm		8.94 m	
Circular 300mm	=	84.27 m	7
Circular 350mm		0.65 m	
Circular 350mm		1.41 m	

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Project Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

Profile		Total Length	No. Inspections
Circular 350mm	=	2.06 m	2
Circular 400mm Circular 400mm Circular 400mm		31.74 m 7.25 m 18.10 m	
Circular 400mm	=	57.09 m	3
Circular 80mm Circular 80mm Circular 80mm Circular 80mm Circular 80mm Circular 80mm		0.09 m 0.19 m 0.09 m 0.09 m 0.28 m 0.19 m	
Circular 80mm	=	0.93 m	6
Total	**=**	**408.94 m**	**114**

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	BRANCH A	MH2	8.5	2		2													4			2	
2	1	MH2	DOWNSTREAM	5.0	1															2			2	
3	1	RWG8	DOWNSTREAM	1.9	2										2				1	2			1	
4	**1**	**RWG9**	**DOWNSTREAM**	**0.2**	**1**	**1**														**1**			**1**	
5	**1**	**RWG10**	**DOWNSTREAM**	**0.6**	**1**	**1**														**1**			**1**	
6	**1**	**RWG11**	**DOWNSTREAM**	**2.3**	**1**	**1**														**2**			**1**	
7	1	RWG1	MH1	0.9	1															2			1	1
8	1	RWG3	MH2	10.6	1															2			2	
9	**1**	**RWG6**	**DOWNSTREAM**	**1.0**	**2**	**1**				**1**					**1**					**2**			**1**	
10	**1**	**BRANCH A**	**MH3**	**8.2**	**1**	**1**														**1**			**1**	
11	**1**	**MH3**	**DOWNSTREAM**	**0.7**		**1**							**2**										**2**	

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Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

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
12	**1**	**UPSTREAM**	**MH3**	**1.4**	**1**	**1**				**2**										**2**			**1**	
13	**1**	**RWG12**	**DOWNSTREAM**	**3.1**		**1**																	**1**	
14	**1**	**RWG13**	**DOWNSTREAM**	**0.2**	**1**	**1**														**2**			**1**	
15	**1**	**RWG14**	**DOWNSTREAM**	**0.7**	**1**	**1**									**1**					**1**			**1**	
16	**1**	**RWG17**	**DOWNSTREAM**	**0.0**	**1**	**1**														**1**			**1**	
17	**1**	**RWG22**	**DOWNSTREAM**	**0.2**	**1**	**1**														**1**			**1**	
18	1	RWG24	MH4	2.1																			1	
19	1	MH3	MH5 BRANCH B	11.2	1															3			1	
20	1	BRANCH A	MH5	1.4	1															2			1	
21	**1**	**MH5**	**DOWNSTREAM**	**18.8**	**3**	**1**									**2**				**7**				**1**	
22	**1**	**BRANCH C**	**MH5**	**0.4**	**1**	**1**														**1**			**1**	
23	**1**	**BRANCH D**	**MH5**	**0.5**		**1**																	**1**	
24	**1**	**BRANCH E**	**MH5**	**3.2**		**1**																	**1**	
25	1	MH6	MH7	23.0	2		2								2				8				1	
26	**1**	**UPSTREAM**	**MH6**	**13.7**		**1**													**2**				**1**	
27	**1**	**BRANCH A**	**MH7**	**8.9**		**1**													**3**				**2**	
28	**1**	**BRANCH C**	**MH7**	**0.1**		**1**																	**1**	
29	**1**	**MH7**	**DOWNSTREAM**	**31.7**	**6**	**1**	**2**								**4**		**2**		**2**				**1**	
30	1	MH8	DOWNSTREAM	7.3	6										2		4		1				1	
31	**1**	**UPSTREAM**	**MH8**	**18.1**	**1**	**1**									**3**					**1**			**1**	
32	1	BRANCH A	MH9	0.7																1			1	1
33	**1**	**MH9**	**DOWNSTREAM**	**0.4**	**1**	**1**									**1**								**1**	**1**
34	1	UPSTREAM	MH9	3.6																			1	3
35	1	RWG27	DOWNSTREAM	1.2																			1	1
36	1	RWG28	DOWNSTREAM	1.7	1										1								1	1
37	1	RWG29	DOWNSTREAM	1.3																			1	1
38	1	RWG30	DOWNSTREAM	1.3													1						1	1
39	**1**	**RWG26**	**DOWNSTREAM**	**1.7**	**1**	**1**									**1**	**1**							**1**	**1**
40	**1**	**BRANCH A**	**MH1**	**0.0**		**1**																	**1**	

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Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

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
41	**1**	**BRANCH A**	**MH10**	**1.8**	**2**	**1**				**1**					**2**					**1**			**1**	**2**
42	1	BRANCH B	MH10	0.7	1					1									1				1	1
43	1	BRANCH C	MH10	2.1											3				2				1	2
44	1	BRANCH D	MH10	0.3											1								1	1
45	1	MH10	DOWNSTREAM	5.8											2				1				1	1
46	1	BRANCH A	MH11	0.0																			1	
47	1	BRANCH B	MH11	18.8	1															1			1	1
48	1	MH11	MH13	3.1	1															2			1	1
49	1	MH12	MH11	26.8																			1	1
50	1	UPSTREAM	MH12	2.8																			1	1
51	1	BRANCH A	MH14	1.3	5			2	1	1			2		1				1			1	1	
52	1	BRANCH B	MH14	2.1	1				2	1					1								1	1
53	1	MH14	MH13	0.8	2										2								1	
54	1	RWG31	DOWNSTREAM	0.0																			1	1
55	1	RWG32	DOWNSTREAM	0.1																			1	
56	1	UPSTREAM	RWG31	1.5																			1	1
57	**1**	**UPSTREAM**	**RWG32**	**0.4**	**1**	**1**		**1**												**2**			**1**	
58	1	RWG35	DOWNSTREAM	7.2	1															1			1	1
59	1	RWG34	RWG35	6.3																			1	2
60	1	RWG36	DOWNSTREAM	0.5																			1	
61	1	RWG37	DOWNSTREAM	2.0																			1	
62	1	MH17	MH16	0.0	2															1		3	1	
63	1	BRANCH B	MH16	3.7	1															1			1	2
64	**1**	**MH16**	**DOWNSTREAM**	**0.6**		**1**	**1**																**1**	
65	**1**	**BRANCH A**	**MH17**	**5.3**	**1**	**1**																**4**	**1**	**1**
66	1	BRANCH A	MH18	1.4																			1	1
67	**1**	**BRANCH B**	**MH18**	**0.1**	**1**	**1**																**1**	**1**	
68	1	MH18	MH19	3.4																			1	1
69	1	UPSTREAM	MH18	0.3																			1	2

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Highgate Cemetery		06/03/2024

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
70	1	BRANCH A	MH19	1.2																			1	
71	1	MH19	DOWNSTREAM	3.5											1								1	
72	**1**	**BRANCH A**	**RWG53**	**0.0**	**2**	**1**									**1**		**1**						**1**	
73	**1**	**RWG53**	**DOWNSTREAM**	**0.5**		**1**	**1**																**2**	**1**
74	**1**	**RWG54**	**DOWNSTREAM**	**0.3**	**1**	**1**											**3**						**1**	
75	**1**	**UPSTREAM**	**RWG54**	**1.6**	**1**	**1**	**2**								**1**								**1**	
76	**1**	**RWG41**	**DOWNSTREAM**	**0.1**	**1**	**1**													**1**				**1**	
77	**1**	**UPSTREAM**	**RWG41**	**0.3**	**1**	**1**														**1**			**1**	
78	**1**	**RWG40**	**DOWNSTREAM**	**0.0**	**1**	**1**														**1**			**1**	
79	**1**	**RWG42**	**DOWNSTREAM**	**4.2**	**1**	**1**									**3**				**4**	**1**			**2**	
80	**1**	**RWG49**	**DOWNSTREAM**	**1.6**	**1**	**1**											**2**						**2**	
81	**1**	**RWG58**	**DOWNSTREAM**	**2.0**	**5**	**1**									**4**					**3**			**1**	
82	**1**	**BRANCH A**	**RWG56**	**0.7**	**2**	**1**	**2**								**1**					**2**			**2**	
83	**1**	**RWG56**	**DOWNSTREAM**	**6.6**	**5**	**1**	**4**								**2**		**3**		**1**	**3**			**3**	
84	**1**	**RWG57**	**DOWNSTREAM**	**1.1**	**2**	**1**									**1**					**3**			**1**	
85	**1**	**RWG59**	**DOWNSTREAM**	**1.8**	**3**	**1**	**1**								**2**		**2**			**1**			**3**	
86	**1**	**RWG84**	**DOWNSTREAM**	**0.2**	**1**	**1**														**1**			**1**	
87	**1**	**BRANCH B**	**RWG56**	**0.2**	**1**	**1**														**2**			**1**	
88	**1**	**UPSTREAM**	**RWG58**	**0.1**	**1**	**1**														**1**			**1**	
89	**1**	**RWG59**	**DOWNSTREAM**	**0.1**	**1**	**1**														**1**			**1**	
90	**1**	**UPSTREAM**	**RWG59**	**2.0**	**4**	**1**									**3**	**1**	**1**					**1**	**1**	**1**
91	**1**	**RWG73**	**DOWNSTREAM**	**0.1**	**2**	**1**									**1**					**1**			**1**	
92	1	RWG75	DOWNSTREAM	0.3	2					2													1	
93	**1**	**RWG83**	**DOWNSTREAM**	**0.2**	**1**	**1**														**2**			**1**	
94	**1**	**MH15**	**DOWNSTREAM**	**1.8**	**1**	**1**														**1**			**1**	
95	**1**	**UPSTREAM**	**MH15**	**0.2**	**1**	**1**														**1**			**1**	
96	**1**	**BRANCH A**	**MH20**	**5.2**	**8**	**1**				**2**			**1**		**6**	**1**							**1**	**1**
97	1	MH20	DOWNSTREAM	0.3																			1	

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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
98	**1**	**UPSTREAM**	**MH20**	**11.0**	**2**	**1**		**4**	**1**	**1**					**2**		**1**		**5**				**5**	
99	**1**	**BRANCH A**	**MH21**	**1.2**	**1**	**1**									**1**					**1**			**1**	
100	**1**	**MH21**	**DOWNSTREAM**	**5.6**	**3**	**1**									**7**					**3**			**1**	
101	**1**	**UPSTREAM**	**MH21**	**9.0**	**1**	**1**									**1**					**2**			**1**	
102	**1**	**BRANCH A**	**MH22**	**0.2**		**1**																	**1**	
103	**1**	**MH22**	**DOWNSTREAM**	**19.4**	**2**	**1**			**1**											**2**			**3**	**1**
104	**1**	**UPSTREAM**	**MH22**	**5.0**		**1**	**2**		**1**						**1**				**2**				**3**	
105	1	BRANCH A	MH23	1.1	1															2			1	
106	1	BRANCH B	MH23	0.8																			1	
107	1	MH23	DOWNSTREAM	2.1	1															2			1	
108	1	BRANCH A	MH24	3.0																1			1	
109	1	BRANCH B	MH24	0.0																			1	
110	1	BRANCH C	MH24	1.6																2			1	
111	1	RWG90	DOWNSTREAM	14.7																2			1	
112	1	RWG91	DOWNSTREAM	0.1																			1	1
113	1	RWG92	DOWNSTREAM	0.8	1										1								1	1
114	1	RWG89	DOWNSTREAM	0.2	2					1					1								1	1
115	1	BRANCH A	MH21	0.8																1			1	
			Total:	**408.9**	**125**	**60**	**19**	**7**	**6**	**13**			**5**		**72**	**3**	**20**		**42**	**86**		**10**	**136**	**42**

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Legend of Classification (Section)

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

1:	Brick: Minor structural defects. Other: Minor structural defects, i.e. open or displaced joints without additional characteristics. **Acceptable structural condition.**
2:	Brick: Circumferential cracking. Single longitudinal crack. Surface mortar loss (depth missing < 15 mm). Surface damage - spalling slight (breaking away of small fragments from the surface). Surface damage - wear slight (increased roughness). Other: Circumferential cracking. Surface damage - spalling slight (breaking away of small fragments from the surface). Surface damage - wear slight (increased roughness). **Minimal collapse likelihood in the short term but potential for further deterioration.**
3:	Brick: Total mortar loss (depth missing > 50 mm) without other defects. More than one longitudinal crack (at a single location). Multiple cracking. Single bricks displaced. Deformation < 5%, no fracture and only moderate mortar loss. Surface damage - spalling medium (large areas of chipped brick). Surface damage - wear medium (entire surface of brick is missing). Other: Fracture with no deformation or deformation < 5%. Longitudinal cracking or multiple cracking. Minor loss of level. Severe joint defects i.e. Surface damage - spalling medium. Surface damage - wear medium. **Collapse unlikely in the near future but further deterioration likely.**
4:	Brick: Total mortar loss (depth missing > 50mm) with deformation > 10%; deformation up to 10% and fractured; displaced or hanging brickwork; small number of missing bricks; dropped invert (drop > 20mm); moderate loss of level; surface damage - large spalling (entire surface of brick is missing); surface damage - large wear (entire surface of brick is missing). Other: Broken; deformation up to 10% and broken; fracture with deformation 5-10%; multiple fractures; serious loss of level; serious joint defects with voids or soil visible (open joint with > 50mm soil or void visible or joint displacement > 25% of diameter); surface damage - entire area of pipe surface is missing or severly worn. **Collapse likely in the foreseeable future.**
5:	Brick: Already collapsed; missing Invert; deformation > 10% and fractured; displaced or hanging brickwork and deformation < 10%; extensive areas of missing brickwork. Other: Already collapsed; deformation > 10% and broken; extensive areas of pipe fabric missing; fractures with deformation > 10% **Collapsed or collapse imminent.**

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Section Profile - 06/03/2024 - Branch AX

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

Circular, 80 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
76	RWG41	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.09 m	0.09 m
86	RWG84	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
89	RWG59	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.09 m	0.09 m
91	RWG73	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.09 m	0.09 m
92	RWG75	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.28 m	0.28 m
93	RWG83	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m

Total: 6 Inspections x Circular 80 mm, 0 mm = 0.93 m Total Length and 0.93 m Inspected Length

Circular, 100 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
1	Branch A	MH2	06/03/2024	Swains Lane	Polyvinyl chloride	8.54 m	8.54 m
2	MH2	Downstream	06/03/2024	Swains Lane	Polyvinyl chloride	4.99 m	4.99 m
4	RWG9	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
5	RWG10	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.57 m	0.57 m
7	RWG1	MH1	06/03/2024	Swains Lane	Vitrified clay	0.86 m	0.86 m
8	RWG3	MH2	06/03/2024	Swains Lane	Polyvinyl chloride	10.58 m	10.58 m
14	RWG13	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
15	RWG14	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.67 m	0.67 m
16	RWG17	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.01 m	0.01 m
17	RWG22	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
18	RWG24	MH4	06/03/2024	Swains Lane	Polyvinyl chloride	2.11 m	2.11 m
28	Branch C	MH7	07/03/2024	Swains Lane	Polyvinyl chloride	0.09 m	0.09 m
32	Branch A	MH9	07/03/2024	Swains Lane	Polyvinyl chloride	0.67 m	0.67 m
33	MH9	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	0.38 m	0.38 m
34	Upstream	MH9	07/03/2024	Swains Lane	Polyvinyl chloride	3.55 m	3.55 m
36	RWG28	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	1.72 m	1.72 m
37	RWG29	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	1.34 m	1.34 m
38	RWG30	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	1.34 m	1.34 m
39	RWG26	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	1.72 m	1.72 m
41	Branch A	MH10	07/03/2024	Swains Lane	Vitrified clay	1.82 m	1.82 m
42	Branch B	MH10	07/03/2024	Swains Lane	Vitrified clay	0.67 m	0.67 m
43	Branch C	MH10	07/03/2024	Swains Lane	Vitrified clay	2.11 m	2.11 m
44	Branch D	MH10	07/03/2024	Swains Lane	Polyvinyl chloride	0.28 m	0.28 m
45	MH10	Downstream	07/03/2024	Swains Lane	Vitrified clay	5.76 m	5.76 m
46	Branch A	MH11	07/03/2024	Swains Lane	Polyvinyl chloride	0.01 m	0.01 m
47	Branch B	MH11	07/03/2024	Swains Lane	Polyvinyl chloride	18.75 m	18.75 m
48	MH11	MH13	07/03/2024	Swains Lane	Polyvinyl chloride	3.07 m	3.07 m
49	MH12	MH11	07/03/2024	Swains Lane	Polyvinyl chloride	26.75 m	26.75 m
50	Upstream	MH12	07/03/2024	Swains Lane	Vitrified clay	2.78 m	2.78 m
51	Branch A	MH14	07/03/2024	Swains Lane	Vitrified clay	1.34 m	1.34 m
52	Branch B	MH14	07/03/2024	Swains Lane	Vitrified clay	2.11 m	2.11 m
53	MH14	MH13	07/03/2024	Swains Lane	Vitrified clay	0.76 m	0.76 m
54	RWG31	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.01 m	0.01 m
55	RWG32	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.09 m	0.09 m
56	Upstream	RWG31	07/03/2024	Swains Lane	Polyvinyl chloride	1.53 m	1.53 m
57	Upstream	RWG32	07/03/2024	Swains Lane	Vitrified clay	0.38 m	0.38 m
58	RWG35	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	7.20 m	7.20 m
59	RWG34	RWG35	07/03/2024	Swains Lane	Polyvinyl chloride	6.33 m	6.33 m
60	RWG36	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	0.48 m	0.48 m
61	RWG37	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	2.01 m	2.01 m

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Section Profile - 06/03/2024 - Branch AX

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

62	MH17	MH16	07/03/2024	Swains Lane	Polyvinyl chloride	3.16 m	0.00 m
63	Branch B	MH16	07/03/2024	Swains Lane	Polyvinyl chloride	3.74 m	3.74 m
64	MH16	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	0.57 m	0.57 m
65	Branch A	MH17	07/03/2024	Swains Lane	Polyvinyl chloride	5.28 m	5.28 m
66	Branch A	MH18	07/03/2024	Swains Lane	Polyvinyl chloride	1.44 m	1.44 m
67	Branch B	MH18	07/03/2024	Swains Lane	Polyvinyl chloride	0.09 m	0.09 m
68	MH18	MH19	07/03/2024	Swains Lane	Polyvinyl chloride	3.36 m	3.36 m
69	Upstream	MH18	07/03/2024	Swains Lane	Polyvinyl chloride	0.28 m	0.28 m
70	Branch A	MH19	07/03/2024	Swains Lane	Polyvinyl chloride	1.24 m	1.24 m
71	MH19	Downstream	07/03/2024	Swains Lane	Vitrified clay	3.45 m	3.45 m
72	Branch A	RWG53	07/03/2024	Swains Lane	Vitrified clay	0.01 m	0.01 m
73	RWG53	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.48 m	0.48 m
74	RWG54	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.28 m	0.28 m
75	Upstream	RWG54	07/03/2024	Swains Lane	Vitrified clay	1.63 m	1.63 m
77	Upstream	RWG41	07/03/2024	Swains Lane	Vitrified clay	0.28 m	0.28 m
78	RWG40	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.01 m	0.01 m
79	RWG42	Downstream	07/03/2024	Swains Lane	Vitrified clay	4.22 m	4.22 m
80	RWG49	Downstream	07/03/2024	Swains Lane	Vitrified clay	1.63 m	1.63 m
81	RWG58	Downstream	07/03/2024	Swains Lane	Vitrified clay	2.01 m	2.01 m
82	Branch A	RWG56	07/03/2024	Swains Lane	Vitrified clay	0.67 m	0.67 m
83	RWG56	Downstream	07/03/2024	Swains Lane	Vitrified clay	6.62 m	6.62 m
84	RWG57	Downstream	07/03/2024	Swains Lane	Vitrified clay	1.05 m	1.05 m
85	RWG59	Downstream	07/03/2024	Swains Lane	Vitrified clay	1.82 m	1.82 m
87	Branch B	RWG56	07/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
88	Upstream	RWG58	07/03/2024	Swains Lane	Vitrified clay	0.09 m	0.09 m
90	Upstream	RWG59	07/03/2024	Swains Lane	Vitrified clay	2.01 m	2.01 m
94	MH15	Downstream	07/03/2024	Swains Lane	Vitrified clay	1.82 m	1.82 m
95	Upstream	MH15	07/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
96	Branch A	MH20	07/03/2024	Swains Lane	Vitrified clay	5.18 m	5.18 m
99	Branch A	MH21	07/03/2024	Swains Lane	Vitrified clay	1.23 m	1.23 m
101	Upstream	MH21	07/03/2024	Swains Lane	Vitrified clay	8.99 m	8.99 m
102	Branch A	MH22	07/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
105	Branch A	MH23	07/03/2024	Swains Lane	Vitrified clay	1.05 m	1.05 m
106	Branch B	MH23	07/03/2024	Swains Lane	Vitrified clay	0.76 m	0.76 m
107	MH23	Downstream	07/03/2024	Swains Lane	Vitrified clay	2.11 m	2.11 m
111	RWG90	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	14.66 m	14.66 m
112	RWG91	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.09 m	0.09 m
113	RWG92	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.76 m	0.76 m
114	RWG89	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.19 m	0.19 m
115	Branch A	MH21	07/03/2024	Swains Lane	Polyvinyl chloride	0.75 m	0.75 m

Total: 80 Inspections x Circular 100 mm, 0 mm = 207.53 m Total Length and 204.37 m Inspected Length

Circular, 150 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
3	RWG8	Downstream	06/03/2024	Swains Lane	Vitrified clay	1.92 m	1.92 m
6	RWG11	Downstream	06/03/2024	Swains Lane	Vitrified clay	2.30 m	2.30 m
9	RWG6	Downstream	06/03/2024	Swains Lane	Vitrified clay	0.96 m	0.96 m
13	RWG12	Downstream	06/03/2024	Swains Lane	Vitrified clay	3.07 m	3.07 m
20	Branch A	MH5	06/03/2024	Swains Lane	Polyvinyl chloride	1.44 m	1.44 m
22	Branch C	MH5	06/03/2024	Swains Lane	Polyvinyl chloride	0.38 m	0.38 m
24	Branch E	MH5	06/03/2024	Swains Lane	Polyvinyl chloride	3.16 m	3.16 m
35	RWG27	Downstream	07/03/2024	Swains Lane	Polyvinyl chloride	1.15 m	1.15 m
40	Branch A	MH1	07/03/2024	Swains Lane	Vitrified clay	0.01 m	0.01 m
100	MH21	Downstream	07/03/2024	Swains Lane	Vitrified clay	5.56 m	5.56 m

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Section Profile - 06/03/2024 - Branch AX

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

108	Branch A	MH24	07/03/2024	Swains Lane	Brick	2.97 m	2.97 m
109	Branch B	MH24	07/03/2024	Swains Lane	Brick	0.01 m	0.01 m
110	Branch C	MH24	07/03/2024	Swains Lane	Brick	1.63 m	1.63 m

Total: 13 Inspections x Circular 150 mm, 0 mm = 24.56 m Total Length and 24.56 m Inspected Length

Circular, 225 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
97	MH20	Downstream	07/03/2024	Swains Lane	Vitrified clay	0.28 m	0.28 m
98	Upstream	MH20	07/03/2024	Swains Lane	Vitrified clay	11.02 m	11.02 m
103	MH22	Downstream	07/03/2024	Swains Lane	Vitrified clay	19.37 m	19.37 m
104	Upstream	MH22	07/03/2024	Swains Lane	Vitrified clay	4.99 m	4.99 m

Total: 4 Inspections x Circular 225 mm, 0 mm = 35.66 m Total Length and 35.66 m Inspected Length

Circular, 300 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
10	Branch A	MH3	06/03/2024	Swains Lane	Vitrified clay	8.16 m	8.16 m
19	MH3	MH5 Branch B	06/03/2024	Swains Lane	Concrete	11.15 m	11.15 m
21	MH5	Downstream	06/03/2024	Swains Lane	Concrete	18.83 m	18.83 m
23	Branch D	MH5	06/03/2024	Swains Lane	Concrete	0.48 m	0.48 m
25	MH6	MH7	06/03/2024	Swains Lane	Concrete	22.99 m	22.99 m
26	Upstream	MH6	06/03/2024	Swains Lane	Concrete	13.72 m	13.72 m
27	Branch A	MH7	07/03/2024	Swains Lane	Concrete	8.94 m	8.94 m

Total: 7 Inspections x Circular 300 mm, 0 mm = 84.27 m Total Length and 84.27 m Inspected Length

Circular, 350 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
11	MH3	Downstream	06/03/2024	Swains Lane	Brick	0.65 m	0.65 m
12	Upstream	MH3	06/03/2024	Swains Lane	Brick	1.41 m	1.41 m

Total: 2 Inspections x Circular 350 mm, 0 mm = 2.06 m Total Length and 2.06 m Inspected Length

Circular, 400 mm

Item No.	Upstream Node	Downstream Node	Date	Road	Material	Total Length	Inspected Length
29	MH7	Downstream	07/03/2024	Swains Lane	Concrete	31.74 m	31.74 m
30	MH8	Downstream	07/03/2024	Swains Lane	Concrete	7.25 m	7.25 m
31	Upstream	MH8	07/03/2024	Swains Lane	Concrete	18.10 m	18.10 m

Total: 3 Inspections x Circular 400 mm, 0 mm = 57.09 m Total Length and 57.09 m Inspected Length

Total: 115 Inspections = 412.10 m Total Length and 408.94 m Inspected Length

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

Number of sections	115
Total length of sections	412.10 m
Total length of inspected sections	412.10 m
Total length of not inspected sections	0.00 m
Total abandoned inspections	60
Number of section inspection photos	428
Number of section inspection videos	115
Number of section inspection scans	0
Number of section inclination measurements	0

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH2
Inspected Length:	8.54 m	**Dia/Height:**	100 mm
Total Length:	8.54 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 25% of the vertical dimension
2	0.19	DES	Settled deposits, fine, 20% cross-sectional area loss, start
3	1.15	CUW	Loss of vision, camera under water, start
4	2.68	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
5	3.55	WL	Water level, 15% of the vertical dimension
6	3.55	DES	Settled deposits, fine, 20% cross-sectional area loss, start
7	3.93	CUD	Loss of vision, silt, start
8	5.37	CUW	Loss of vision, camera under water, finish
9	5.37	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
10	5.37	CUD	Loss of vision, silt, finish
11	8.54	GYF	Finish node, gully, reference: Branch A

PLR:	MH2X	**Upstream Node:**	MH2
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	4.99 m	**Dia/Height:**	100 mm
Total Length:	4.99 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 20% cross-sectional area loss, start
3	3.07	WL	Water level, 20% of the vertical dimension
4	4.99	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
5	4.99	GYF	Finish node, gully, reference: Downstream

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	RWG8X	**Upstream Node:**	RWG8
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.92 m	**Dia/Height:**	150 mm
Total Length:	1.92 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	REM	General remark
3	0.48	DES	Settled deposits, fine, 25% cross-sectional area loss, start
4	0.67	JDL	Joint displaced, large
5	0.96	JDM	Joint displaced, medium
6	1.53	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 15% cross-sectional area loss
7	1.92	DES	Settled deposits, fine, 25% cross-sectional area loss, finish
8	1.92	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG9X	**Upstream Node:**	RWG9
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 30% cross-sectional area loss
3	0.09	CUD	Loss of vision, silt
4	0.19	SA	Survey abandoned

PLR:	RWG10X	**Upstream Node:**	RWG10
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.57 m	**Dia/Height:**	100 mm
Total Length:	0.57 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.28	DES	Settled deposits, fine, 75% cross-sectional area loss
3	0.28	CUD	Loss of vision, silt
4	0.57	SA	Survey abandoned

PLR:	RWG11X	**Upstream Node:**	RWG11
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	2.30 m	**Dia/Height:**	150 mm
Total Length:	2.30 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.38	REM	General remark
3	0.67	DES	Settled deposits, fine, 25% cross-sectional area loss, start
4	0.96	CUD	Loss of vision, silt, start
5	2.30	DES	Settled deposits, fine, 25% cross-sectional area loss, finish
6	2.30	CUD	Loss of vision, silt, finish
7	2.30	SA	Survey abandoned

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	RWG1X	**Upstream Node:**	RWG1
Inspection Direction:	Downstream	**Downstream Node:**	MH1
Inspected Length:	0.86 m	**Dia/Height:**	100 mm
Total Length:	0.86 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DES	Settled deposits, fine, 20% cross-sectional area loss, start
3	0.67	LD	Line deviates down
4	0.86	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
5	0.86	MHF	Finish node, manhole, reference: MH1

PLR:	RWG3X	**Upstream Node:**	RWG3
Inspection Direction:	Downstream	**Downstream Node:**	MH2
Inspected Length:	10.58 m	**Dia/Height:**	100 mm
Total Length:	10.58 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	WL	Water level, 20% of the vertical dimension
3	0.86	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	1.05	CUD	Loss of vision, silt, start
5	9.21	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
6	9.21	CUD	Loss of vision, silt, finish
7	10.58	MHF	Finish node, manhole, reference: MH2

PLR:	RWG6X	**Upstream Node:**	RWG6
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.96 m	**Dia/Height:**	150 mm
Total Length:	0.96 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	BJ	Broken pipe at joint from 8 o'clock to 11 o'clock
3	0.09	REM	General remark
4	0.19	DES	Settled deposits, fine, 50% cross-sectional area loss, start
5	0.29	JDM	Joint displaced, medium
6	0.96	DES	Settled deposits, fine, 50% cross-sectional area loss, finish
7	0.96	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH3
Inspected Length:	8.16 m	**Dia/Height:**	300 mm
Total Length:	8.16 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	7.49	DES	Settled deposits, fine, 20% cross-sectional area loss, start
3	8.16	SA	Survey abandoned

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	MH3X	**Upstream Node:**	MH3
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.65 m	**Dia/Height:**	350 mm
Total Length:	0.65 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	H	Hole in drain or sewer from 10 o'clock to 2 o'clock, start
3	0.57	WL	Water level, 20% of the vertical dimension
4	0.65	H	Hole in drain or sewer from 10 o'clock to 2 o'clock, finish
5	0.65	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH3
Inspected Length:	1.41 m	**Dia/Height:**	350 mm
Total Length:	1.41 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.41	B	Broken pipe from 8 o'clock to 9 o'clock, start
3	0.57	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	1.41	B	Broken pipe from 8 o'clock to 9 o'clock, finish
5	1.41	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
6	1.41	DER	Settled deposits, coarse, 30% cross-sectional area loss
7	1.41	SA	Survey abandoned

PLR:	RWG12X	**Upstream Node:**	RWG12
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	3.07 m	**Dia/Height:**	150 mm
Total Length:	3.07 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.96	REM	General remark
3	1.05	MCBR	Pipe material changes to brick at this point
4	1.15	DER	Settled deposits, coarse, 20% cross-sectional area loss, start
5	1.24	DB	Displaced bricks, single brick false from 10 o'clock to 3 o'clock, start
6	2.69	DER	Settled deposits, coarse, 40% cross-sectional area loss, change
7	2.69	DB	Displaced bricks, single brick False from 9 o'clock to 3 o'clock, change
8	3.07	CUD	Loss of vision, silt, start
9	3.07	DER	Settled deposits, coarse, 40% cross-sectional area loss, finish
10	3.07	DB	Displaced bricks, single brick False from 9 o'clock to 3 o'clock, finish
11	3.07	CUD	Loss of vision, silt, finish
12	3.07	SA	Survey abandoned

PLR:	RWG13X	**Upstream Node:**	RWG13
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

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No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 60% cross-sectional area loss, start
3	0.19	DES	Settled deposits, fine, 60% cross-sectional area loss, finish
4	0.19	CUD	Loss of vision, silt, finish
5	0.19	CUD	Loss of vision, silt, start
6	0.19	SA	Survey abandoned

PLR:	RWG14X	**Upstream Node:**	RWG14
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.67 m	**Dia/Height:**	100 mm
Total Length:	0.67 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	JDM	Joint displaced, medium
3	0.28	DES	Settled deposits, fine, 50% cross-sectional area loss
4	0.67	SA	Survey abandoned

PLR:	RWG17X	**Upstream Node:**	RWG17
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.01 m	**Dia/Height:**	100 mm
Total Length:	0.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 60% cross-sectional area loss
3	0.01	CUD	Loss of vision, silt
4	0.01	SA	Survey abandoned

PLR:	RWG22X	**Upstream Node:**	RWG22
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DES	Settled deposits, fine, 30% cross-sectional area loss
3	0.19	SA	Survey abandoned

PLR:	RWG24X	**Upstream Node:**	RWG24
Inspection Direction:	Downstream	**Downstream Node:**	MH4
Inspected Length:	2.11 m	**Dia/Height:**	100 mm
Total Length:	2.11 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.86	REM	General remark
3	2.11	MHF	Finish node, manhole, reference: MH4

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	MH3X	**Upstream Node:**	MH3
Inspection Direction:	Downstream	**Downstream Node:**	MH5 Branch B
Inspected Length:	11.15 m	**Dia/Height:**	300 mm
Total Length:	11.15 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	DES	Settled deposits, fine, 15% cross-sectional area loss
3	0.59	JXB	Junction, blocked at 10 o'clock, 150mm dia
4	8.55	DES	Settled deposits, fine, 20% cross-sectional area loss, start
5	11.15	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
6	11.15	MHF	Finish node, manhole, reference: MH5 Branch B

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH5
Inspected Length:	1.44 m	**Dia/Height:**	150 mm
Total Length:	1.44 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 20% cross-sectional area loss, start
3	1.20	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
4	1.44	GYF	Finish node, gully, reference: RWG25

PLR:	MH5X	**Upstream Node:**	MH5
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	18.83 m	**Dia/Height:**	300 mm
Total Length:	18.83 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.28	JDM	Joint displaced, medium
3	0.38	JDM	Joint displaced, medium
4	8.28	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 5 o'clock, 15% cross-sectional area loss
5	9.68	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 8 o'clock, 20% cross-sectional area loss
6	10.00	DEE	Attached deposits, encrustation from 3 o'clock to 6 o'clock, 30% cross-sectional area loss, start
7	11.07	DEE	Attached deposits, encrustation from 3 o'clock to 6 o'clock, 30% cross-sectional area loss, finish
8	13.16	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 8 o'clock, 25% cross-sectional area loss
9	14.65	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 7 o'clock, 25% cross-sectional area loss, start
10	17.84	JN	Junction at 2 o'clock, 150mm dia
11	18.83	JN	Junction at 11 o'clock, 100mm dia
12	18.83	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 7 o'clock, 25% cross-sectional area loss, finish
13	18.83	SA	Survey abandoned

PLR:	Branch CX	**Upstream Node:**	Branch C
Inspection Direction:	Upstream	**Downstream Node:**	MH5
Inspected Length:	0.38 m	**Dia/Height:**	150 mm
Total Length:	0.38 m	**Material:**	Polyvinyl chloride

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 30% cross-sectional area loss, start
3	0.38	SA	Survey abandoned

PLR:	Branch DX	**Upstream Node:**	Branch D
Inspection Direction:	Upstream	**Downstream Node:**	MH5
Inspected Length:	0.48 m	**Dia/Height:**	300 mm
Total Length:	0.48 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	MCBR	Pipe material changes to brick at this point
3	0.09	DER	Settled deposits, coarse, 40% cross-sectional area loss, start
4	0.48	SA	Survey abandoned

PLR:	Branch EX	**Upstream Node:**	Branch E
Inspection Direction:	Upstream	**Downstream Node:**	MH5
Inspected Length:	3.16 m	**Dia/Height:**	150 mm
Total Length:	3.16 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	2.88	DER	Settled deposits, coarse, 70% cross-sectional area loss
3	3.16	SA	Survey abandoned

PLR:	MH6X	**Upstream Node:**	MH6
Inspection Direction:	Downstream	**Downstream Node:**	MH7
Inspected Length:	22.99 m	**Dia/Height:**	300 mm
Total Length:	22.99 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.01	WL	Water level, 15% of the vertical dimension
2	0.19	CUW	Loss of vision, camera under water, start
3	0.38	JDM	Joint displaced, medium
4	0.38	CUW	Loss of vision, camera under water, finish
5	2.30	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 15% cross-sectional area loss
6	3.74	DEE	Attached deposits, encrustation from 6 o'clock to 9 o'clock, 30% cross-sectional area loss, start
7	3.74	CXI	Connection defective, connecting pipe is intruding at 10 o'clock, 150mm dia, intrusion: 20%
8	5.11	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 10% cross-sectional area loss
9	6.80	CXI	Connection defective, connecting pipe is intruding at 1 o'clock, 150mm dia, intrusion: 50%
10	7.80	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 15% cross-sectional area loss
11	9.09	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 8 o'clock, 20% cross-sectional area loss
12	10.48	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 9 o'clock, 20% cross-sectional area loss
13	12.87	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 11 o'clock, 30% cross-sectional area loss
14	17.05	JDM	Joint displaced, medium
15	22.99	DEE	Attached deposits, encrustation from 6 o'clock to 9 o'clock, 30% cross-sectional area loss, finish
16	22.99	MHF	Finish node, manhole, reference: MH7

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PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH6
Inspected Length:	13.72 m	**Dia/Height:**	300 mm
Total Length:	13.72 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	4.60	JN	Junction at 2 o'clock, 150mm dia
3	4.70	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 20% cross-sectional area loss, start
4	5.96	JN	Junction at 10 o'clock, 150mm dia
5	13.72	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 20% cross-sectional area loss, finish
6	13.72	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH7
Inspected Length:	8.94 m	**Dia/Height:**	300 mm
Total Length:	8.94 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	1.34	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, start
3	1.63	CUD	Loss of vision, silt, start
4	5.85	WL	Water level, 20% of the vertical dimension
5	5.85	MCBR	Pipe material changes to brick at this point
6	5.85	CUD	Loss of vision, silt, finish
7	7.05	DEE	Attached deposits, encrustation from 3 o'clock to 7 o'clock, 30% cross-sectional area loss, change
8	8.84	CUD	Loss of vision, silt, start
9	8.94	DEE	Attached deposits, encrustation from 3 o'clock to 7 o'clock, 30% cross-sectional area loss, finish
10	8.94	CUD	Loss of vision, silt, finish
11	8.94	SA	Survey abandoned

PLR:	Branch CX	**Upstream Node:**	Branch C
Inspection Direction:	Upstream	**Downstream Node:**	MH7
Inspected Length:	0.09 m	**Dia/Height:**	100 mm
Total Length:	0.09 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DER	Settled deposits, coarse, 90% cross-sectional area loss
3	0.09	SA	Survey abandoned

PLR:	MH7X	**Upstream Node:**	MH7
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	31.74 m	**Dia/Height:**	400 mm
Total Length:	31.74 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.96	DEEJ	Attached deposits, encrustation at joint from 2 o'clock to 7 o'clock, 20% cross-sectional area loss, start
3	2.59	CUW	Loss of vision, camera under water, start

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No.	m+	Code	Observation
4	3.07	CUW	Loss of vision, camera under water, finish
5	4.13	DEEJ	Attached deposits, encrustation at joint from 2 o'clock to 7 o'clock, 20% cross-sectional area loss, finish
6	15.31	RTJ	Roots, tap at joint
7	15.51	JDL	Joint displaced, large
8	17.89	RTJ	Roots, tap at joint
9	17.89	JDL	Joint displaced, large
10	24.65	JDL	Joint displaced, large
11	25.28	JN	Junction at 1 o'clock, 150mm dia
12	26.32	JDL	Joint displaced, large
13	31.74	SA	Survey abandoned

PLR:	MH8X	**Upstream Node:**	MH8
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	7.25 m	**Dia/Height:**	400 mm
Total Length:	7.25 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	JDL	Joint displaced, large
3	0.48	DEEJ	Attached deposits, encrustation at joint from 5 o'clock to 8 o'clock, 25% cross-sectional area loss
4	0.48	RMJ	Roots, mass at joint, 20% cross-sectional area loss, start
5	1.63	JDL	Joint displaced, large
6	1.82	RTJ	Roots, tap at joint
7	4.41	RTJ	Roots, tap at joint
8	7.25	RMJ	Roots, mass at joint, 20% cross-sectional area loss, finish
9	7.25	MHF	Finish node, manhole, reference: Downstream

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH8
Inspected Length:	18.10 m	**Dia/Height:**	400 mm
Total Length:	18.10 m	**Material:**	Concrete

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.28	DES	Settled deposits, fine, 20% cross-sectional area loss
3	0.67	JDM	Joint displaced, medium
4	7.25	JN	Junction at 9 o'clock, 150mm dia
5	11.03	JDM	Joint displaced, medium
6	12.32	JDM	Joint displaced, medium
7	18.10	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH9
Inspected Length:	0.67 m	**Dia/Height:**	100 mm
Total Length:	0.67 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension

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No.	m+	Code	Observation
2	0.09	DES	Settled deposits, fine, 15% cross-sectional area loss
3	0.19	LU	Line deviates up
4	0.67	GYF	Finish node, gully, reference: Branch A

PLR:	MH9X	**Upstream Node:**	MH9
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.38 m	**Dia/Height:**	100 mm
Total Length:	0.38 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	LD	Line deviates down
3	0.28	REM	General remark
4	0.28	MCVC	Pipe material changes to vitrified clay at this point
5	0.28	JDL	Joint displaced, large
6	0.38	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH9
Inspected Length:	3.55 m	**Dia/Height:**	100 mm
Total Length:	3.55 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.67	LL	Line deviates left
3	0.96	JN	Junction at 3 o'clock, 100mm dia
4	1.63	LR	Line deviates right
5	2.78	LR	Line deviates right
6	3.55	GYF	Finish node, gully, reference: Upstream

PLR:	RWG27X	**Upstream Node:**	RWG27
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.15 m	**Dia/Height:**	150 mm
Total Length:	1.15 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	LD	Line deviates down
3	0.57	REM	General remark
4	1.15	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG28X	**Upstream Node:**	RWG28
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.72 m	**Dia/Height:**	100 mm
Total Length:	1.72 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	LD	Line deviates down
3	1.44	MCVC	Pipe material changes to vitrified clay at this point

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No.	m+	Code	Observation
4	1.44	JDL	Joint displaced, large
5	1.72	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG29X	**Upstream Node:**	RWG29
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.34 m	**Dia/Height:**	100 mm
Total Length:	1.34 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	LD	Line deviates down
3	1.34	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG30X	**Upstream Node:**	RWG30
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.34 m	**Dia/Height:**	100 mm
Total Length:	1.34 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	LD	Line deviates down
3	1.05	MCVC	Pipe material changes to vitrified clay at this point
4	1.05	RFJ	Roots, fine at joint
5	1.34	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG26X	**Upstream Node:**	RWG26
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.72 m	**Dia/Height:**	100 mm
Total Length:	1.72 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	LD	Line deviates down
3	1.72	MCVC	Pipe material changes to vitrified clay at this point
4	1.72	JDL	Joint displaced, large
5	1.72	OJL	Open joint, large
6	1.72	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH1
Inspected Length:	0.01 m	**Dia/Height:**	150 mm
Total Length:	0.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH10
Inspected Length:	1.82 m	**Dia/Height:**	100 mm
Total Length:	1.82 m	**Material:**	Vitrified clay

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No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.38	JDM	Joint displaced, medium
3	0.57	LR	Line deviates right
4	0.76	BJ	Broken pipe at joint from 1 o'clock to 5 o'clock
5	1.15	LL	Line deviates left
6	1.15	DES	Settled deposits, fine, 20% cross-sectional area loss
7	1.82	JDM	Joint displaced, medium
8	1.82	DER	Settled deposits, coarse, 30% cross-sectional area loss, start
9	1.82	SA	Survey abandoned

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH10
Inspected Length:	0.67 m	**Dia/Height:**	100 mm
Total Length:	0.67 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 11 o'clock, 15% cross-sectional area loss
3	0.09	BJ	Broken pipe at joint from 9 o'clock to 4 o'clock
4	0.09	LR	Line deviates right
5	0.67	MHF	Finish node, manhole, reference: Branch B

PLR:	Branch CX	**Upstream Node:**	Branch C
Inspection Direction:	Upstream	**Downstream Node:**	MH10
Inspected Length:	2.11 m	**Dia/Height:**	100 mm
Total Length:	2.11 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	JDM	Joint displaced, medium
3	0.19	LR	Line deviates right
4	0.19	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 8 o'clock, 20% cross-sectional area loss
5	0.28	JDM	Joint displaced, medium
6	0.76	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 7 o'clock, 15% cross-sectional area loss
7	1.15	JDM	Joint displaced, medium
8	1.15	MCPVC	Pipe material changes to polyvinyl chloride at this point
9	1.72	LU	Line deviates up
10	2.11	MHF	Finish node, manhole, reference: Branch C

PLR:	Branch DX	**Upstream Node:**	Branch D
Inspection Direction:	Upstream	**Downstream Node:**	MH10
Inspected Length:	0.28 m	**Dia/Height:**	100 mm
Total Length:	0.28 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	LU	Line deviates up
3	0.19	JDM	Joint displaced, medium

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No.	m+	Code	Observation
4	0.19	MCPF	Pipe material changes to pitch fibre at this point
5	0.28	MHF	Finish node, manhole, reference: Branch D

PLR:	MH10X	**Upstream Node:**	MH10
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	5.76 m	**Dia/Height:**	100 mm
Total Length:	5.76 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	JN	Junction at 6 o'clock, 100mm dia
3	0.19	SC	Pipe size changes, new size(s), 150mm high
4	2.78	JDM	Joint displaced, medium
5	3.45	JDM	Joint displaced, medium
6	3.45	LL	Line deviates left
7	4.41	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss
8	5.76	MHF	Finish node, manhole, reference: Main line

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH11
Inspected Length:	0.01 m	**Dia/Height:**	100 mm
Total Length:	0.01 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	MHF	Finish node, manhole, reference: Capped

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH11
Inspected Length:	18.75 m	**Dia/Height:**	100 mm
Total Length:	18.75 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	LR	Line deviates right
3	8.64	JN	Junction at 3 o'clock, 100mm dia
4	9.99	JN	Junction at 3 o'clock, 100mm dia
5	18.75	DES	Settled deposits, fine, 45% cross-sectional area loss
6	18.75	MHF	Finish node, manhole, reference: Branch B

PLR:	MH11X	**Upstream Node:**	MH11
Inspection Direction:	Downstream	**Downstream Node:**	MH13
Inspected Length:	3.07 m	**Dia/Height:**	100 mm
Total Length:	3.07 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.36	DES	Settled deposits, fine, 25% cross-sectional area loss, start
3	1.15	CUD	Loss of vision, silt, start
4	2.97	DES	Settled deposits, fine, 25% cross-sectional area loss, finish

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No.	m+	Code	Observation
5	2.97	CUD	Loss of vision, silt, finish
6	3.07	LD	Line deviates down
7	3.07	MHF	Finish node, manhole, reference: MH13

PLR:	MH12X	**Upstream Node:**	MH12
Inspection Direction:	Upstream	**Downstream Node:**	MH11
Inspected Length:	26.75 m	**Dia/Height:**	100 mm
Total Length:	26.75 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	LR	Line deviates right
3	0.65	SR	Sealing ring intruding, not hanging from 10 o'clock to 12 o'clock
4	18.32	JN	Junction at 3 o'clock, 100mm dia
5	26.75	MHF	Finish node, manhole, reference: MH12

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH12
Inspected Length:	2.78 m	**Dia/Height:**	100 mm
Total Length:	2.78 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	2.68	LU	Line deviates up
3	2.78	MHF	Finish node, manhole, reference: Upstream

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH14
Inspected Length:	1.34 m	**Dia/Height:**	100 mm
Total Length:	1.34 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	JDM	Joint displaced, medium
3	0.09	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 9 o'clock, 30% cross-sectional area loss
4	0.48	CC	Crack, circumferential from 8 o'clock to 3 o'clock
5	0.48	H	Hole in drain or sewer from 12 o'clock to 1 o'clock
6	0.96	FCJ	Fracture, circumferential at joint from 7 o'clock to 4 o'clock
7	1.15	BJ	Broken pipe at joint from 1 o'clock to 9 o'clock
8	1.24	OBI	Other obstacles, protruding through wall from 9 o'clock to 11 o'clock, 20% cross-sectional area loss
9	1.24	CC	Crack, circumferential from 12 o'clock to 3 o'clock
10	1.24	H	Hole in drain or sewer from 8 o'clock to 12 o'clock
11	1.34	MHF	Finish node, manhole, reference: Branch A

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH14
Inspected Length:	2.11 m	**Dia/Height:**	100 mm
Total Length:	2.11 m	**Material:**	Vitrified clay

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No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	1.24	BJ	Broken pipe at joint from 10 o'clock to 2 o'clock
3	1.24	FCJ	Fracture, circumferential at joint from 12 o'clock to 6 o'clock
4	1.72	FC	Fracture, circumferential from 2 o'clock to 6 o'clock
5	1.72	JDM	Joint displaced, medium
6	1.72	LU	Line deviates up
7	2.11	MHF	Finish node, manhole, reference: Branch B

PLR:	MH14X	**Upstream Node:**	MH14
Inspection Direction:	Downstream	**Downstream Node:**	MH13
Inspected Length:	0.76 m	**Dia/Height:**	100 mm
Total Length:	0.76 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	JDL	Joint displaced, large
3	0.48	JDL	Joint displaced, large
4	0.76	MHF	Finish node, manhole, reference: MH13

PLR:	RWG31X	**Upstream Node:**	RWG31
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.01 m	**Dia/Height:**	100 mm
Total Length:	0.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	LD	Line deviates down
3	0.01	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG32X	**Upstream Node:**	RWG32
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.09 m	**Dia/Height:**	100 mm
Total Length:	0.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	MHF	Finish node, manhole, reference: Downstream

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	RWG31
Inspected Length:	1.53 m	**Dia/Height:**	100 mm
Total Length:	1.53 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	1.06	LU	Line deviates up
3	1.53	MHF	Finish node, manhole, reference: Upstream

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PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	RWG32
Inspected Length:	0.38 m	**Dia/Height:**	100 mm
Total Length:	0.38 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 35% cross-sectional area loss, start
3	0.19	CCJ	Crack, circumferential at joint from 12 o'clock to 3 o'clock
4	0.38	DES	Settled deposits, fine, 35% cross-sectional area loss, finish
5	0.38	SA	Survey abandoned

PLR:	RWG35X	**Upstream Node:**	RWG35
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	7.20 m	**Dia/Height:**	100 mm
Total Length:	7.20 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	LL	Line deviates left
3	7.20	DES	Settled deposits, fine, 20% cross-sectional area loss
4	7.20	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG34X	**Upstream Node:**	RWG34
Inspection Direction:	Upstream	**Downstream Node:**	RWG35
Inspected Length:	6.33 m	**Dia/Height:**	100 mm
Total Length:	6.33 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.01	WL	Water level, 20% of the vertical dimension
2	1.82	LR	Line deviates right
3	2.40	LR	Line deviates right
4	6.33	GYF	Finish node, gully, reference: RWG34

PLR:	RWG36X	**Upstream Node:**	RWG36
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.48 m	**Dia/Height:**	100 mm
Total Length:	0.48 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG37X	**Upstream Node:**	RWG37
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	2.01 m	**Dia/Height:**	100 mm
Total Length:	2.01 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	2.01	MHF	Finish node, manhole, reference: Downstream

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Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	MH17X	**Upstream Node:**	MH17
Inspection Direction:	Upstream	**Downstream Node:**	MH16
Inspected Length:		**Dia/Height:**	100 mm
Total Length:	3.16 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	REM	General remark
3	0.01	OBZ	Other obstacles from 1 o'clock to 3 o'clock, 25% cross-sectional area loss, start
4	0.48	OBZ	Other obstacles from 4 o'clock to 6 o'clock, 25% cross-sectional area loss, change
5	1.72	JN	Junction at 3 o'clock, 100mm dia
6	3.16	DES	Settled deposits, fine, 30% cross-sectional area loss
7	3.16	OBZ	Other obstacles from 4 o'clock to 6 o'clock, 25% cross-sectional area loss, finish

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH16
Inspected Length:	3.74 m	**Dia/Height:**	100 mm
Total Length:	3.74 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	2.20	DES	Settled deposits, fine, 20% cross-sectional area loss
3	2.40	LL	Line deviates left
4	3.16	LR	Line deviates right
5	3.74	GYF	Finish node, gully, reference: Branch B

PLR:	MH16X	**Upstream Node:**	MH16
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.57 m	**Dia/Height:**	100 mm
Total Length:	0.57 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.01	WL	Water level, 30% of the vertical dimension
2	0.01	CUW	Loss of vision, camera under water, start
3	0.57	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH17
Inspected Length:	5.28 m	**Dia/Height:**	100 mm
Total Length:	5.28 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	OBZ	Other obstacles from 3 o'clock to 5 o'clock, 25% cross-sectional area loss, start
3	0.28	OBZ	Other obstacles from 5 o'clock to 7 o'clock, 25% cross-sectional area loss, change
4	3.16	OBZ	Other obstacles from 6 o'clock to 8 o'clock, 25% cross-sectional area loss, change
5	4.60	OBZ	Other obstacles from 6 o'clock to 8 o'clock, 25% cross-sectional area loss, change
6	4.99	LL	Line deviates left
7	5.28	SA	Survey abandoned

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PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH18
Inspected Length:	1.44 m	**Dia/Height:**	100 mm
Total Length:	1.44 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	REM	General remark
3	1.05	LU	Line deviates up
4	1.44	MHF	Finish node, manhole, reference: Branch A

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH18
Inspected Length:	0.09 m	**Dia/Height:**	100 mm
Total Length:	0.09 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	OBZJ	Other obstacles at joint from 8 o'clock to 11 o'clock, 20% cross-sectional area loss
3	0.09	SA	Survey abandoned

PLR:	MH18X	**Upstream Node:**	MH18
Inspection Direction:	Downstream	**Downstream Node:**	MH19
Inspected Length:	3.36 m	**Dia/Height:**	100 mm
Total Length:	3.36 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	1.05	JN	Junction at 3 o'clock, 100mm dia
3	2.78	JN	Junction at 2 o'clock, 100mm dia
4	2.97	LL	Line deviates left
5	2.97	MCVC	Pipe material changes to vitrified clay at this point
6	3.36	MHF	Finish node, manhole, reference: MH19

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH18
Inspected Length:	0.28 m	**Dia/Height:**	100 mm
Total Length:	0.28 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	LL	Line deviates left
3	0.19	LU	Line deviates up
4	0.28	REF	Finish node, rodding eye, reference: Upstream

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH19
Inspected Length:	1.24 m	**Dia/Height:**	100 mm
Total Length:	1.24 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension

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No.	m+	Code	Observation
2	0.09	REM	General remark
3	0.67	REM	General remark
4	1.24	JN	Junction at 12 o'clock, 100mm dia
5	1.24	MHF	Finish node, manhole, reference: Branch A

PLR:	MH19X	**Upstream Node:**	MH19
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	3.45 m	**Dia/Height:**	100 mm
Total Length:	3.45 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.57	JDM	Joint displaced, medium
3	3.45	MHF	Finish node, manhole, reference: Downstream

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	RWG53
Inspected Length:	0.01 m	**Dia/Height:**	100 mm
Total Length:	0.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	JDL	Joint displaced, large
3	0.01	RM	Roots, mass, 55% cross-sectional area loss
4	0.01	SA	Survey abandoned

PLR:	RWG53X	**Upstream Node:**	RWG53
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.48 m	**Dia/Height:**	100 mm
Total Length:	0.48 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	LD	Line deviates down
3	0.09	WL	Water level, 50% of the vertical dimension
4	0.48	CUW	Loss of vision, camera under water
5	0.48	SA	Survey abandoned

PLR:	RWG54X	**Upstream Node:**	RWG54
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.28 m	**Dia/Height:**	100 mm
Total Length:	0.28 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	RM	Roots, mass, 40% cross-sectional area loss, start
3	0.28	RM	Roots, mass, 80% cross-sectional area loss, change
4	0.28	RM	Roots, mass, 80% cross-sectional area loss, finish
5	0.28	SA	Survey abandoned

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PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	RWG54
Inspected Length:	1.63 m	**Dia/Height:**	100 mm
Total Length:	1.63 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 50% of the vertical dimension
2	0.09	JDL	Joint displaced, large
3	0.19	CUW	Loss of vision, camera under water, start
4	1.63	CUW	Loss of vision, camera under water, finish
5	1.63	SA	Survey abandoned

PLR:	RWG41X	**Upstream Node:**	RWG41
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.09 m	**Dia/Height:**	80 mm
Total Length:	0.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 10 o'clock, 40% cross-sectional area loss
3	0.09	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	RWG41
Inspected Length:	0.28 m	**Dia/Height:**	100 mm
Total Length:	0.28 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DES	Settled deposits, fine, 70% cross-sectional area loss
3	0.28	SA	Survey abandoned

PLR:	RWG40X	**Upstream Node:**	RWG40
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.01 m	**Dia/Height:**	100 mm
Total Length:	0.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 85% cross-sectional area loss
3	0.01	SA	Survey abandoned

PLR:	RWG42X	**Upstream Node:**	RWG42
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	4.22 m	**Dia/Height:**	100 mm
Total Length:	4.22 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.38	DES	Settled deposits, fine, 15% cross-sectional area loss
3	0.45	JDM	Joint displaced, medium
4	1.34	JDM	Joint displaced, medium

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No.	m+	Code	Observation
5	1.44	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 20% cross-sectional area loss, start
6	1.72	WL	Water level, 30% of the vertical dimension
7	2.01	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 35% cross-sectional area loss, change
8	2.49	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 45% cross-sectional area loss, change
9	2.97	JDL	Joint displaced, large
10	4.00	DEE	Attached deposits, encrustation from 2 o'clock to 10 o'clock, 75% cross-sectional area loss, change
11	4.22	SA	Survey abandoned

PLR:	RWG49X	**Upstream Node:**	RWG49
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.63 m	**Dia/Height:**	100 mm
Total Length:	1.63 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	RM	Roots, mass, 50% cross-sectional area loss, start
3	0.09	WL	Water level, 40% of the vertical dimension
4	0.28	CUZ	Loss of vision, other, start
5	1.63	RM	Roots, mass, 50% cross-sectional area loss, finish
6	1.63	CUZ	Loss of vision, other, finish
7	1.63	SA	Survey abandoned

PLR:	RWG58X	**Upstream Node:**	RWG58
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	2.01 m	**Dia/Height:**	100 mm
Total Length:	2.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 25% cross-sectional area loss, start
3	0.09	JDL	Joint displaced, large
4	0.67	JDL	Joint displaced, large
5	1.05	DES	Settled deposits, fine, 60% cross-sectional area loss, change
6	1.15	JDL	Joint displaced, large
7	2.01	JDL	Joint displaced, large
8	2.01	DES	Settled deposits, fine, 75% cross-sectional area loss, change
9	2.01	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	RWG56
Inspected Length:	0.67 m	**Dia/Height:**	100 mm
Total Length:	0.67 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	JDL	Joint displaced, large
3	0.01	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	0.01	WL	Water level, 70% of the vertical dimension

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No.	m+	Code	Observation
5	0.09	CUW	Loss of vision, camera under water, start
6	0.67	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
7	0.67	CUW	Loss of vision, camera under water, finish
8	0.67	SA	Survey abandoned

PLR:	RWG56X	**Upstream Node:**	RWG56
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	6.62 m	**Dia/Height:**	100 mm
Total Length:	6.62 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	DESJ	Settled deposits, fine at joint, 20% cross-sectional area loss
3	0.19	JDL	Joint displaced, large
4	0.86	DES	Settled deposits, fine, 60% cross-sectional area loss, start
5	2.30	DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 35% cross-sectional area loss
6	2.30	DES	Settled deposits, fine, 50% cross-sectional area loss, finish
7	2.49	CUD	Loss of vision, silt, start
8	2.78	RFJ	Roots, fine at joint
9	3.26	CUW	Loss of vision, camera under water, start
10	4.32	CUD	Loss of vision, silt, finish
11	4.32	CUW	Loss of vision, camera under water, finish
12	4.60	RFJ	Roots, fine at joint
13	4.60	JDL	Joint displaced, large
14	4.80	WL	Water level, 25% of the vertical dimension
15	4.99	RFJ	Roots, fine at joint
16	5.37	WL	Water level, 55% of the vertical dimension
17	5.85	CUW	Loss of vision, camera under water, start
18	6.62	CUW	Loss of vision, camera under water, finish
19	6.62	SA	Survey abandoned

PLR:	RWG57X	**Upstream Node:**	RWG57
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.05 m	**Dia/Height:**	100 mm
Total Length:	1.05 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 25% cross-sectional area loss, start
3	0.48	JDL	Joint displaced, large
4	0.48	DES	Settled deposits, fine, 45% cross-sectional area loss, change
5	0.76	CUD	Loss of vision, silt, start
6	1.05	DES	Settled deposits, fine, 45% cross-sectional area loss, finish
7	1.05	CUD	Loss of vision, silt, finish
8	1.05	SA	Survey abandoned

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PLR:	RWG59X	**Upstream Node:**	RWG59
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.82 m	**Dia/Height:**	100 mm
Total Length:	1.82 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	JDL	Joint displaced, large
3	0.48	RFJ	Roots, fine at joint
4	1.15	RFJ	Roots, fine at joint
5	1.15	JDL	Joint displaced, large
6	1.24	REM	General remark
7	1.44	WL	Water level, 70% of the vertical dimension
8	1.53	WL	Water level, 100% of the vertical dimension
9	1.53	CUW	Loss of vision, camera under water
10	1.53	DES	Settled deposits, fine, 40% cross-sectional area loss
11	1.82	SA	Survey abandoned

PLR:	RWG84X	**Upstream Node:**	RWG84
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.19 m	**Dia/Height:**	80 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 75% cross-sectional area loss
3	0.01	CUD	Loss of vision, silt, start
4	0.19	SA	Survey abandoned

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	RWG56
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 25% cross-sectional area loss, start
3	0.09	CUD	Loss of vision, silt, start
4	0.19	DES	Settled deposits, fine, 25% cross-sectional area loss, finish
5	0.19	CUD	Loss of vision, silt
6	0.19	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	RWG58
Inspected Length:	0.09 m	**Dia/Height:**	100 mm
Total Length:	0.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 60% cross-sectional area loss

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No.	m+	Code	Observation
3	0.09	CUD	Loss of vision, silt
4	0.09	SA	Survey abandoned

PLR:	RWG59X	**Upstream Node:**	RWG59
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.09 m	**Dia/Height:**	80 mm
Total Length:	0.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DES	Settled deposits, fine, 80% cross-sectional area loss
3	0.09	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	RWG59
Inspected Length:	2.01 m	**Dia/Height:**	100 mm
Total Length:	2.01 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.38	JDL	Joint displaced, large
3	1.05	JDL	Joint displaced, large
4	1.05	LR	Line deviates right
5	1.34	RFJ	Roots, fine at joint
6	1.92	OJL	Open joint, large
7	1.92	JDL	Joint displaced, large
8	2.01	OBIJ	Other obstacles, protruding through wall at joint from 2 o'clock to 4 o'clock, 25% cross-sectional area loss
9	2.01	SA	Survey abandoned

PLR:	RWG73X	**Upstream Node:**	RWG73
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.09 m	**Dia/Height:**	80 mm
Total Length:	0.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	DES	Settled deposits, fine, 20% cross-sectional area loss
3	0.09	JDL	Joint displaced, large
4	0.09	SA	Survey abandoned

PLR:	RWG75X	**Upstream Node:**	RWG75
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.28 m	**Dia/Height:**	80 mm
Total Length:	0.28 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	B	Broken pipe from 10 o'clock to 4 o'clock
3	0.01	B	Broken pipe from 12 o'clock to 12 o'clock
4	0.28	MHF	Finish node, manhole, reference: Downstream

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PLR:	RWG83X	**Upstream Node:**	RWG83
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.19 m	**Dia/Height:**	80 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 40% cross-sectional area loss, start
3	0.19	DES	Settled deposits, fine, 40% cross-sectional area loss, finish
4	0.19	SA	Survey abandoned

PLR:	MH15X	**Upstream Node:**	MH15
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	1.82 m	**Dia/Height:**	100 mm
Total Length:	1.82 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 25% cross-sectional area loss
3	0.19	CUD	Loss of vision, silt, start
4	1.82	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH15
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 20% cross-sectional area loss
3	0.09	CUD	Loss of vision, silt
4	0.19	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH20
Inspected Length:	5.18 m	**Dia/Height:**	100 mm
Total Length:	5.18 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	B	Broken pipe from 8 o'clock to 3 o'clock
3	0.48	LR	Line deviates right
4	0.48	JDL	Joint displaced, large
5	1.15	H	Hole in drain or sewer from 10 o'clock to 2 o'clock
6	1.15	B	Broken pipe from 10 o'clock to 2 o'clock
7	1.92	JDM	Joint displaced, medium
8	2.68	JDL	Joint displaced, large
9	4.03	JDL	Joint displaced, large
10	4.51	JDL	Joint displaced, large
11	5.18	OJL	Open joint, large

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No.	m+	Code	Observation
12	5.18	JDL	Joint displaced, large
13	5.18	SA	Survey abandoned

PLR:	MH20X	**Upstream Node:**	MH20
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.28 m	**Dia/Height:**	225 mm
Total Length:	0.28 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.28	MHF	Finish node, manhole, reference: Downstream

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH20
Inspected Length:	11.02 m	**Dia/Height:**	225 mm
Total Length:	11.02 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	CC	Crack, circumferential from 1 o'clock to 6 o'clock
3	0.19	FCJ	Fracture, circumferential at joint from 12 o'clock to 12 o'clock
4	0.19	BJ	Broken pipe at joint from 12 o'clock to 12 o'clock
5	0.19	RFJ	Roots, fine at joint
6	2.11	CCJ	Crack, circumferential at joint from 8 o'clock to 3 o'clock
7	2.11	DEEJ	Attached deposits, encrustation at joint from 5 o'clock to 7 o'clock, 15% cross-sectional area loss
8	3.16	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 8 o'clock, 15% cross-sectional area loss
9	3.63	CLJ	Crack, longitudinal at joint at 3 o'clock
10	3.64	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 7 o'clock, 15% cross-sectional area loss
11	4.22	WL	Water level, 15% of the vertical dimension
12	4.22	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 8 o'clock, 30% cross-sectional area loss
13	4.41	WL	Water level, 15% of the vertical dimension
14	4.80	CCJ	Crack, circumferential at joint from 4 o'clock to 8 o'clock
15	6.44	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 6 o'clock, 15% cross-sectional area loss
16	7.53	JDM	Joint displaced, medium
17	8.13	WL	Water level, 20% of the vertical dimension
18	9.03	WL	Water level, 30% of the vertical dimension
19	9.62	JDM	Joint displaced, medium
20	9.92	CUD	Loss of vision, silt, start
21	11.02	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH21
Inspected Length:	1.23 m	**Dia/Height:**	100 mm
Total Length:	1.23 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 20% cross-sectional area loss, start

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Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

No.	m+	Code	Observation
3	0.41	JDM	Joint displaced, medium
4	0.49	CUD	Loss of vision, silt, start
5	1.23	SA	Survey abandoned

PLR:	MH21X	**Upstream Node:**	MH21
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	5.56 m	**Dia/Height:**	150 mm
Total Length:	5.56 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 25% cross-sectional area loss, start
3	0.09	JDM	Joint displaced, medium
4	0.19	DES	Settled deposits, fine, 25% cross-sectional area loss, finish
5	0.19	JDM	Joint displaced, medium
6	0.48	DES	Settled deposits, fine, 25% cross-sectional area loss, start
7	1.92	JDM	Joint displaced, medium
8	2.40	JDL	Joint displaced, large
9	2.88	JDM	Joint displaced, medium
10	3.55	JDM	Joint displaced, medium
11	5.37	JDM	Joint displaced, medium
12	5.56	CUD	Loss of vision, silt, start
13	5.56	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH21
Inspected Length:	8.99 m	**Dia/Height:**	100 mm
Total Length:	8.99 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 20% cross-sectional area loss, start
3	0.16	JDM	Joint displaced, medium
4	0.35	CUD	Loss of vision, silt, start
5	8.99	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
6	8.99	CUD	Loss of vision, silt, finish
7	8.99	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH22
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	CUD	Loss of vision, silt, start
3	0.19	CUD	Loss of vision, silt, finish
4	0.19	SA	Survey abandoned

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Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	MH22X	**Upstream Node:**	MH22
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	19.37 m	**Dia/Height:**	225 mm
Total Length:	19.37 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	FMJ	Fractures, multiple at joint from 12 o'clock to 12 o'clock
3	0.48	DES	Settled deposits, fine, 20% cross-sectional area loss, start
4	0.57	WL	Water level, 20% of the vertical dimension
5	1.63	LL	Line deviates left
6	10.35	WL	Water level, 20% of the vertical dimension
7	19.37	DES	Settled deposits, fine, 20% cross-sectional area loss, finish
8	19.37	SA	Survey abandoned

PLR:	UpstreamX	**Upstream Node:**	Upstream
Inspection Direction:	Upstream	**Downstream Node:**	MH22
Inspected Length:	4.99 m	**Dia/Height:**	225 mm
Total Length:	4.99 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	WL	Water level, 20% of the vertical dimension
3	0.57	CUW	Loss of vision, camera under water, start
4	2.11	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, start
5	3.55	WL	Water level, 50% of the vertical dimension
6	4.99	FC	Fracture, circumferential from 7 o'clock to 9 o'clock
7	4.99	JDM	Joint displaced, medium
8	4.99	CUW	Loss of vision, camera under water, finish
9	4.99	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, finish
10	4.99	SA	Survey abandoned

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH23
Inspected Length:	1.05 m	**Dia/Height:**	100 mm
Total Length:	1.05 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.48	DES	Settled deposits, fine, 30% cross-sectional area loss, start
3	1.05	DES	Settled deposits, fine, 30% cross-sectional area loss, finish
4	1.05	GYF	Finish node, gully, reference: Branch A

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH23
Inspected Length:	0.76 m	**Dia/Height:**	100 mm
Total Length:	0.76 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension

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Highgate Cemetery		06/03/2024

No.	m+	Code	Observation
2	0.76	GYF	Finish node, gully, reference: Branch B

PLR:	MH23X	**Upstream Node:**	MH23
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	2.11 m	**Dia/Height:**	100 mm
Total Length:	2.11 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 25% cross-sectional area loss, start
3	0.19	SC	Pipe size changes, new size(s), 150mm high
4	1.05	DB	Displaced bricks, single brick false from 5 o'clock to 7 o'clock, start
5	2.11	DES	Settled deposits, fine, 25% cross-sectional area loss, finish
6	2.11	DB	Displaced bricks, single brick False from 5 o'clock to 7 o'clock, finish
7	2.11	MHF	Finish node, manhole, reference: Downstream

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH24
Inspected Length:	2.97 m	**Dia/Height:**	150 mm
Total Length:	2.97 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DB	Displaced bricks, single brick false from 5 o'clock to 8 o'clock, start
3	2.11	DES	Settled deposits, fine, 15% cross-sectional area loss
4	2.97	DB	Displaced bricks, single brick False from 5 o'clock to 8 o'clock, finish
5	2.97	MHF	Finish node, manhole, reference: Branch A

PLR:	Branch BX	**Upstream Node:**	Branch B
Inspection Direction:	Upstream	**Downstream Node:**	MH24
Inspected Length:	0.01 m	**Dia/Height:**	150 mm
Total Length:	0.01 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	GYF	Finish node, gully, reference: Branch B

PLR:	Branch CX	**Upstream Node:**	Branch C
Inspection Direction:	Upstream	**Downstream Node:**	MH24
Inspected Length:	1.63 m	**Dia/Height:**	150 mm
Total Length:	1.63 m	**Material:**	Brick

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.19	DB	Displaced bricks, single brick false from 7 o'clock to 8 o'clock
3	0.19	DES	Settled deposits, fine, 15% cross-sectional area loss, start
4	1.63	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
5	1.63	MHF	Finish node, manhole, reference: Branch C

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Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

PLR:	RWG90X	**Upstream Node:**	RWG90
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	14.66 m	**Dia/Height:**	100 mm
Total Length:	14.66 m	**Material:**	Polyvinyl chloride

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 15% cross-sectional area loss, start
3	3.16	REM	General remark
4	12.97	REM	General remark
5	14.66	DES	Settled deposits, fine, 15% cross-sectional area loss, finish
6	14.66	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG91X	**Upstream Node:**	RWG91
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.09 m	**Dia/Height:**	100 mm
Total Length:	0.09 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	LD	Line deviates down
3	0.09	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG92X	**Upstream Node:**	RWG92
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.76 m	**Dia/Height:**	100 mm
Total Length:	0.76 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	LD	Line deviates down
3	0.67	JDL	Joint displaced, large
4	0.76	MHF	Finish node, manhole, reference: Downstream

PLR:	RWG89X	**Upstream Node:**	RWG89
Inspection Direction:	Downstream	**Downstream Node:**	Downstream
Inspected Length:	0.19 m	**Dia/Height:**	100 mm
Total Length:	0.19 m	**Material:**	Vitrified clay

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.09	LD	Line deviates down
3	0.09	JDL	Joint displaced, large
4	0.09	BJ	Broken pipe at joint from 10 o'clock to 3 o'clock
5	0.19	MHF	Finish node, manhole, reference: Downstream

PLR:	Branch AX	**Upstream Node:**	Branch A
Inspection Direction:	Upstream	**Downstream Node:**	MH21
Inspected Length:	0.75 m	**Dia/Height:**	100 mm
Total Length:	0.75 m	**Material:**	Polyvinyl chloride

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Section Summary

Project Name	Project Number	Project Date
Highgate Cemetery		06/03/2024

No.	m+	Code	Observation
1	0.00	WL	Water level, 0% of the vertical dimension
2	0.01	DES	Settled deposits, fine, 15% cross-sectional area loss
3	0.75	GYF	Finish node, gully, reference: Branch A

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
1	1	06/03/24	14:23	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

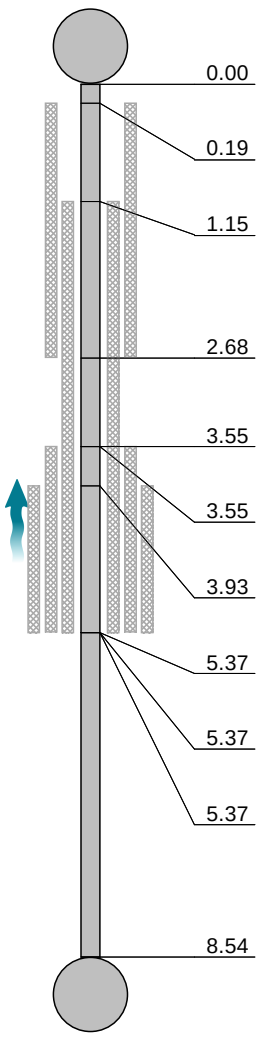
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	8.54 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.54 m	**Downstream Node:**	MH2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.520 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Investigate possible bellies

Scale: 1:74

Depth: 0.52 m
MH2



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 25% of the vertical dimension	00:00:09		
0.19	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:18		
1.15	S02	CUW	Loss of vision, camera under water, start	00:00:29		
2.68	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:41		4
3.55		WL	Water level, 15% of the vertical dimension	00:00:45		
3.55	S03	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:47		
3.93	S04	CUD	Loss of vision, silt, start	00:00:49		
5.37	F02	CUW	Loss of vision, camera under water, finish	00:01:03		
5.37	F03	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:03		4
5.37	F04	CUD	Loss of vision, silt, finish	00:01:03		
8.54		GYF	Finish node, gully, reference: Branch A: RWG3	00:01:27		

Branch A
Depth: m

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	2	10.0	2.9	25.0	5.0

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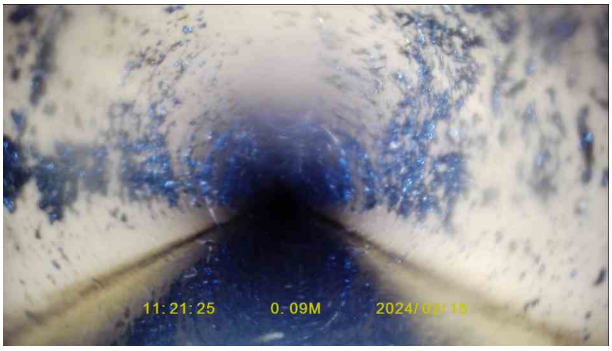
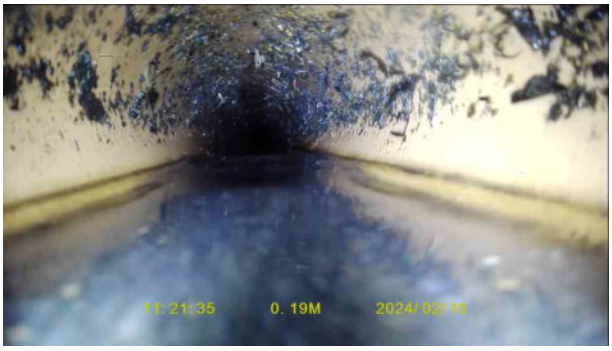
Section Pictures - 06/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	BRANCH AX		

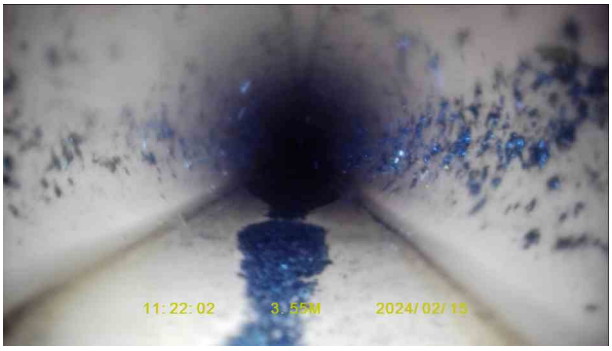


ad7fa88b-5804-47e4-81b7-6510e43d0aae.jpg, 00:00:09, 0.00 m
Water level, 25% of the vertical dimension



0a57784d-e58e-4407-8287-cf7a23f7a03b.jpg, 00:00:18, 0.19 m
Settled deposits, fine, 20% cross-sectional area loss, start

45444d20-de98-474d-8e16-df8a5b80f346.jpg, 00:00:29, 1.15 m
Loss of vision, camera under water, start



ed78403e-130b-4de6-bf97-45cb9d68f741.jpg, 00:00:45, 3.55 m
Water level, 15% of the vertical dimension

ea51794f-0e49-406f-a021-baaee9d72fa0.jpg, 00:00:47, 3.55 m
Settled deposits, fine, 20% cross-sectional area loss, start

bb43ae0d-a9b1-4c82-bcf2-6b3e421abd2d.jpg, 00:00:49, 3.93 m
Loss of vision, silt, start

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Section Pictures - 06/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
1	Upstream	BRANCH AX		

aff5abb1-d8bc-42d0-b147-c52168b645ee.jpg, 00:01:27, 8.54 m
Finish node, gully, reference: Branch A, RWG3

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
2	1	06/03/24	14:27	Not Specified	Not Specified	Not Specified	MH2X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

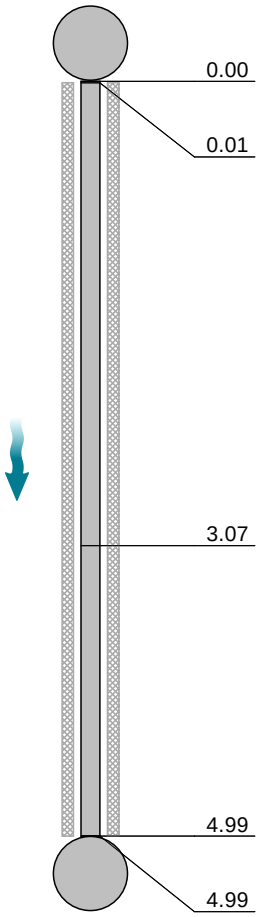
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH2
Road:	Swains Lane	**Inspected Length:**	4.99 m	**Upstream Pipe Depth:**	0.520 m
Location:		**Total Length:**	4.99 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Investigate possible bellies

Scale: 1:50

Depth: 0.52 m
MH2



Downstream
Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:33		
0.01	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:11		
3.07		WL	Water level, 20% of the vertical dimension	00:00:39		
4.99	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:59		4
4.99		GYF	Finish node, gully, reference: Downstream	00:00:59		

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	5.0	5.0	25.0	5.0

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Section Pictures - 06/03/2024 - MH2X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
2	Downstream	MH2X		

4ebcb5db-0fa7-472b-9e97-0df6afe2e321.jpg, 00:00:11, 0.01 m
Settled deposits, fine, 20% cross-sectional area loss, start

ea009a75-6651-483a-85b7-7ff205005d5b.jpg, 00:00:39, 3.07 m
Water level, 20% of the vertical dimension

f5072ad4-f0dd-40f9-840f-8552685888fc.jpg, 00:00:59, 4.99 m
Finish node, gully, reference: Downstream

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
3	1	06/03/24	14:29	Not Specified	Not Specified	Not Specified	RWG8X

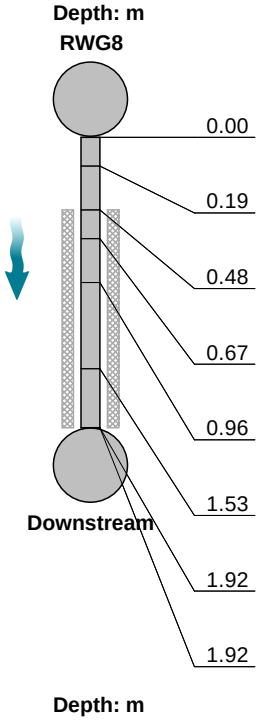
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG8
Road:	Swains Lane	**Inspected Length:**	1.92 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.92 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR

Scale: 1:50



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:49		
0.19		REM	General remark: Deviation in line	00:00:18		
0.48	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:22		
0.67		JDL	Joint displaced, large	00:00:23		1 / 4
0.96		JDM	Joint displaced, medium	00:00:28		1 / 3
1.53		DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 15% cross-sectional area loss	00:00:34		3
1.92	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:00:49		4
1.92		MHF	Finish node, manhole, reference: Downstream: Blind Junction	00:00:49		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	2.0	1.6	3.0	1.0	4	10.0	9.9	19.0	5.0

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Section Pictures - 06/03/2024 - RWG8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
3	Downstream	RWG8X		

20c95e4e-6e9c-4eee-b96d-9d31401beb11.jpg, 00:00:22, 0.48 m
Settled deposits, fine, 25% cross-sectional area loss, start

afcd81bb-6da3-4ec1-b5c4-cda859859e55.jpg, 00:00:23, 0.67 m
Joint displaced, large

7b959420-30df-46fe-8b1c-021aa6c8dd4c.jpg, 00:00:28, 0.96 m
Joint displaced, medium

f1f2450b-46f3-4ac6-8aa2-235a2dc617f9.jpg, 00:00:34, 1.53 m
Attached deposits, encrustation at joint from 3 o'clock to 4 o'clock, 15% cross-sectional area loss

ac05824a-b069-45db-b62a-b17bffb3209f.jpg, 00:00:49, 1.92 m
Finish node, manhole, reference: Downstream, Blind Junction

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
4	1	06/03/24	14:31	Not Specified	Not Specified	Not Specified	RWG9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

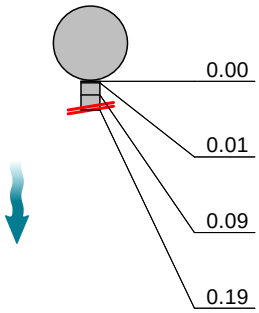
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG9
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.19 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG9



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:01:07		
0.01	DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:19		4
0.09	CUD	Loss of vision, silt	00:00:43		
0.19	SA	Survey abandoned: Camera unable to pass debris	00:00:58		

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	5.0	26.3	5.0	5.0

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Section Pictures - 06/03/2024 - RWG9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
4	Downstream	RWG9X		

7ba87c9a-6b39-42d4-ae10-ec3c1a5078b6.jpg, 00:00:19, 0.01 m
Settled deposits, fine, 30% cross-sectional area loss

1f425de4-3b74-4eae-be3e-b771f1efb006.jpg, 00:00:43, 0.09 m
Loss of vision, silt

b3d517be-2c67-4ef1-a381-ccbc479d77ed.jpg, 00:00:58, 0.19 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
5	1	06/03/24	14:33	Not Specified	Not Specified	Not Specified	RWG10X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

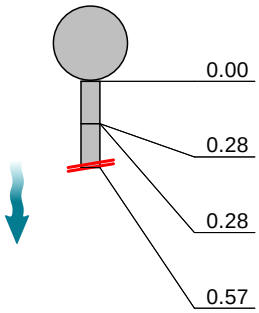
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG10
Road:	Swains Lane	**Inspected Length:**	0.57 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.57 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG10



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:01:07		
0.28	DES	Settled deposits, fine, 75% cross-sectional area loss	00:00:22		4
0.28	CUD	Loss of vision, silt	00:00:33		
0.57	SA	Survey abandoned: Loss of vision due to debris	00:00:42		

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	8.0	14.0	8.0	5.0

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Section Pictures - 06/03/2024 - RWG10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
5	Downstream	RWG10X		

0b747a0b-873a-46c3-b4fc-464612ea82f8.jpg, 00:00:22, 0.28 m
Settled deposits, fine, 75% cross-sectional area loss

9f2c88fc-44d8-418c-afb1-97731efff954.jpg, 00:00:33, 0.28 m
Loss of vision, silt

7e3b7bc0-30c8-42e8-9e52-30451373290b.jpg, 00:00:42, 0.57 m
Survey abandoned, Loss of vision due to debris

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
6	1	06/03/24	14:34	Not Specified	Not Specified	Not Specified	RWG11X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

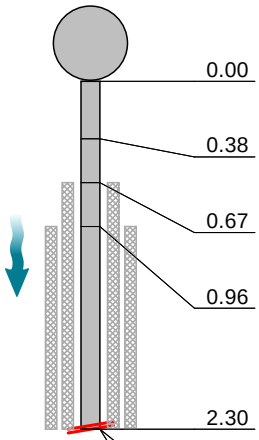
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG11
Road:	Swains Lane	**Inspected Length:**	2.30 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.30 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: m
RWG11



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.38		REM	General remark: Deviation in line	00:00:20		
0.67	S01	DES	Settled deposits, fine, 25% cross-sectional area loss, start	00:00:28		
0.96	S02	CUD	Loss of vision, silt, start	00:00:31		
2.30	F01	DES	Settled deposits, fine, 25% cross-sectional area loss, finish	00:01:07		4
2.30	F02	CUD	Loss of vision, silt, finish	00:01:07		
2.30		SA	Survey abandoned: Loss of vision due to debris	00:01:07		

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	5.0	4.3	10.0	4.0

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Section Pictures - 06/03/2024 - RWG11X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
6	Downstream	RWG11X		

ccde89bb-de1f-44ef-bd98-8822d6aa2ec0.jpg, 00:00:28, 0.67 m
Settled deposits, fine, 25% cross-sectional area loss, start

39d35123-f694-4239-b562-f053c1a3d53b.jpg, 00:00:31, 0.96 m
Loss of vision, silt, start

e73f62a2-d0e7-4ab9-9641-e84caed7fbe2.jpg, 00:01:07, 2.30 m
Survey abandoned, Loss of vision due to debris

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
7	1	06/03/24	14:36	Not Specified	Not Specified	Not Specified	RWG1X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

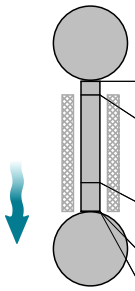
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG1
Road:	Swains Lane	**Inspected Length:**	0.86 m	**Upstream Pipe Depth:**	0.450 m
Location:		**Total Length:**	0.86 m	**Downstream Node:**	MH1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50

Depth: 0.45 m
RWG1



MH1

Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:01		
0.09	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:10		
0.67		LD	Line deviates down	00:00:18		
0.86	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:26		4
0.86		MHF	Finish node, manhole, reference: MH1	00:00:26		

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	5.0	5.8	5.0	5.0

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Section Pictures - 06/03/2024 - RWG1X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
7	Downstream	RWG1X		

7d9258fa-146f-4850-be93-c5bf5397d76f.jpg, 00:00:10, 0.09 m
Settled deposits, fine, 20% cross-sectional area loss, start

95952fe2-18de-4e60-bd62-6f9d13e47e82.jpg, 00:00:26, 0.86 m
Finish node, manhole, reference: MH1

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
8	1	06/03/24	14:40	Not Specified	Not Specified	Not Specified	RWG3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

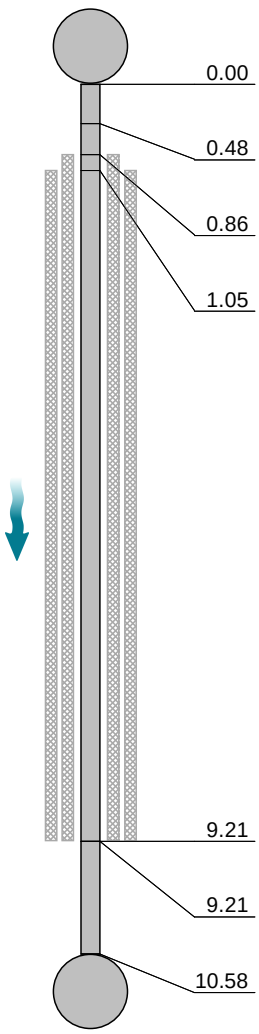
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG3
Road:	Swains Lane	**Inspected Length:**	10.58 m	**Upstream Pipe Depth:**	0.280 m
Location:		**Total Length:**	10.58 m	**Downstream Node:**	MH2
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Investigate possible bellies

Scale: 1:92

Depth: 0.28 m
RWG3



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:01		
0.48		WL	Water level, 20% of the vertical dimension	00:00:18		
0.86	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:24		
1.05	S02	CUD	Loss of vision, silt, start	00:00:25		
9.21	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:41		4
9.21	F02	CUD	Loss of vision, silt, finish	00:01:41		
10.58		MHF	Finish node, manhole, reference: MH2	00:02:10		

MH2
Depth: m

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	5.0	4.3	45.0	4.0

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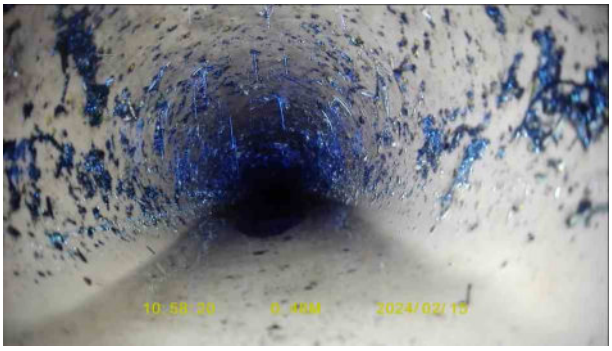
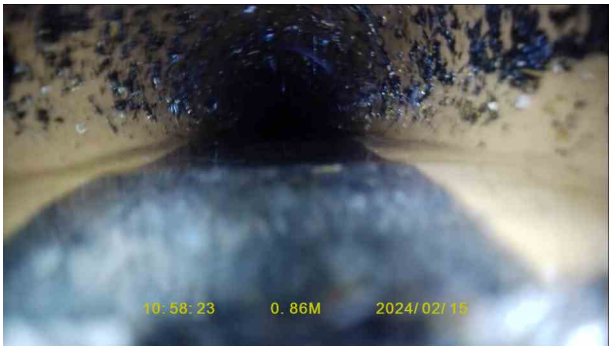
Section Pictures - 06/03/2024 - RWG3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
8	Downstream	RWG3X		



0ff1c506-107e-4789-9f66-13d1d4ee3e82.jpg, 00:00:18, 0.48 m
Water level, 20% of the vertical dimension



9139b476-f04d-427c-b933-e8b7d94a1fc7.jpg, 00:00:24, 0.86 m
Settled deposits, fine, 20% cross-sectional area loss, start

90cd2590-729c-4f09-8783-98986f2134e9.jpg, 00:00:25, 1.05 m
Loss of vision, silt, start

5c05eb00-58fe-4748-9f19-052cce5bfb2e.jpg, 00:02:10, 10.58 m
Finish node, manhole, reference: MH2

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
9	1	06/03/24	14:41	Not Specified	Not Specified	Not Specified	RWG6X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

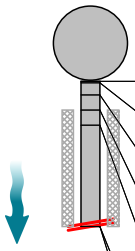
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG6
Road:	Swains Lane	**Inspected Length:**	0.96 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.96 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further investigation required

Scale: 1:50

Depth: m
RWG6



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01		BJ	Broken pipe at joint from 8 o'clock to 11 o'clock	00:00:01		4
0.09		REM	General remark: Deviation in line	00:00:15		
0.19	S01	DES	Settled deposits, fine, 50% cross-sectional area loss, start	00:00:20		
0.29		JDM	Joint displaced, medium	00:00:21		1 / 3
0.96	F01	DES	Settled deposits, fine, 50% cross-sectional area loss, finish	00:00:41		4
0.96		SA	Survey abandoned: Camera unable to push further	00:00:41		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	80.0	84.4	81.0	4.0	2	10.0	10.4	10.0	5.0

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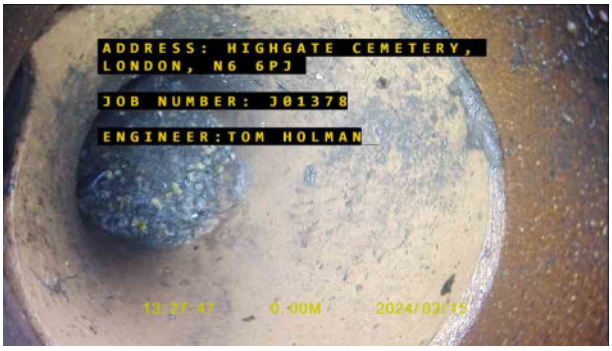
Section Pictures - 06/03/2024 - RWG6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
9	Downstream	RWG6X		



397b982f-a76e-453f-83c7-2e7946c7e29a.jpg, 00:00:01, 0.01 m
Broken pipe at joint from 8 o'clock to 11 o'clock

1c44eae0-37b6-4678-8aee-5aa4b04f4063.jpg, 00:00:20, 0.19 m
Settled deposits, fine, 50% cross-sectional area loss, start

506d008a-a4ca-4920-9f11-68f6314c14b6.jpg, 00:00:21, 0.29 m
Joint displaced, medium

f0cc2763-8207-4804-a4ab-e36e04128bba.jpg, 00:00:41, 0.96 m
Survey abandoned, Camera unable to push further

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
10	1	06/03/24	14:43	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

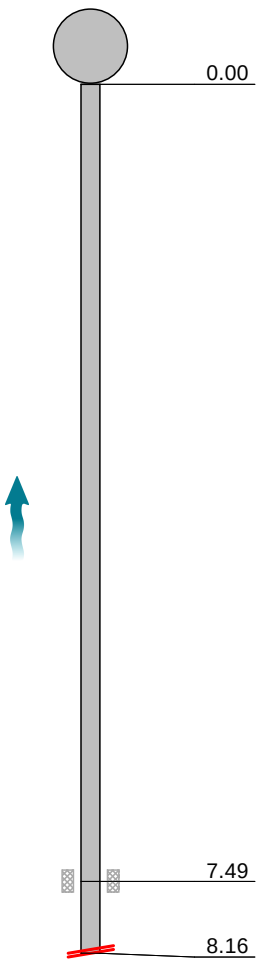
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	8.16 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.16 m	**Downstream Node:**	MH3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:71

Depth: 1.00 m
MH3



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:50		
7.49	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:01:04		4
8.16		SA	Survey abandoned: Camera unable to pass debris	00:01:59		

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	0.0	0.6	5.0	2.0

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Section Pictures - 06/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
10	Upstream	BRANCH AX		

3d1525e2-dcc1-4be8-9519-7761d187d133.jpg, 00:01:04, 7.49 m
Settled deposits, fine, 20% cross-sectional area loss, start

a0e355cb-3626-4767-b647-5fba654fe9cd.jpg, 00:01:59, 8.16 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
11	1	06/03/24	14:45	Not Specified	Not Specified	Not Specified	MH3X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

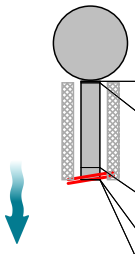
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH3
Road:	Swains Lane	**Inspected Length:**	0.65 m	**Upstream Pipe Depth:**	1.000 m
Location:		**Total Length:**	0.65 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	350 mm
Flow Control:		**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required

Scale: 1:50

Depth: 1.00 m
MH3



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	S01	H	Hole in drain or sewer from 10 o'clock to 2 o'clock, start	00:00:09		
0.57		WL	Water level, 20% of the vertical dimension	00:00:45		
0.65	F01	H	Hole in drain or sewer from 10 o'clock to 2 o'clock, finish	00:01:00		
0.65		SA	Survey abandoned: Camera unable to push further	00:00:54		

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

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Section Pictures - 06/03/2024 - MH3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
11	Downstream	MH3X		

fe6ca740-4cf9-47e2-9136-ef9903ed7e3e.jpg, 00:00:09, 0.01 m
Hole in drain or sewer from 10 o'clock to 2 o'clock, start

3827b171-7a46-40b8-8e18-5303ecc50257.jpg, 00:00:45, 0.57 m
Water level, 20% of the vertical dimension

884ca6ea-9957-4bcf-a443-224242517dbb.jpg, 00:00:54, 0.65 m
Survey abandoned, Camera unable to push further

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
12	1	06/03/24	14:47	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

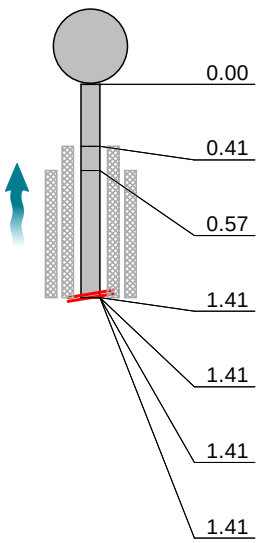
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	1.41 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.41 m	**Downstream Node:**	MH3
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.000 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	350 mm
Flow Control:		**Material:**	Brick
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required

Scale: 1:50

Depth: 1.00 m
MH3



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:23		
0.41	S01	B	Broken pipe from 8 o'clock to 9 o'clock, start	00:00:14		
0.57	S02	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:18		
1.41	F01	B	Broken pipe from 8 o'clock to 9 o'clock, finish	00:00:58		
1.41	F02	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:01		4
1.41		DER	Settled deposits, coarse, 30% cross-sectional area loss	00:01:04		4
1.41		SA	Survey abandoned: Camera unable to push further	00:01:04		

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	2	5.0	7.1	10.0	5.0

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Section Pictures - 06/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
12	Upstream	UPSTREAMX		

4ef6300e-2f9d-4306-95ef-b6cd0994d147.jpg, 00:00:14, 0.41 m
Broken pipe from 8 o'clock to 9 o'clock, start

548a9801-4d4e-4b9c-8021-e88d28ad1322.jpg, 00:00:18, 0.57 m
Settled deposits, fine, 20% cross-sectional area loss, start

0231ad88-5588-41bb-b1e0-f9aa52024e8c.jpg, 00:01:04, 1.41 m
Settled deposits, coarse, 30% cross-sectional area loss

e442f1d8-f945-4c7a-9174-83f5532d3724.jpg, 00:01:04, 1.41 m
Survey abandoned, Camera unable to push further

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
13	1	06/03/24	14:50	Not Specified	Not Specified	Not Specified	RWG12X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

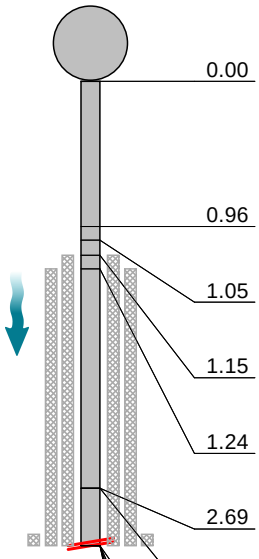
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG12
Road:	Swains Lane	**Inspected Length:**	3.07 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.07 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investiagation required

Scale: 1:50

Depth: m
RWG12



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:22		
0.96		REM	General remark: Deviation in line	00:00:17		
1.05		MCBR	Pipe material changes to brick at this point	00:00:18		
1.15	S01	DER	Settled deposits, coarse, 20% cross-sectional area loss, start	00:00:19		
1.24	S02	DB	Displaced bricks, single brick false from 10 o'clock to 3 o'clock, start	00:00:32		
2.69	C01	DER	Settled deposits, coarse, 40% cross-sectional area loss, change	00:00:44		
2.69	C02	DB	Displaced bricks, single brick False from 9 o'clock to 3 o'clock, change	00:00:44		
3.07	S03	CUD	Loss of vision, silt, start	00:01:11		
3.07	F01	DER	Settled deposits, coarse, 40% cross-sectional area loss, finish	00:01:28		4
3.07	F02	DB	Displaced bricks, single brick False from 9 o'clock to 3 o'clock, finish	00:01:28		
3.07	F03	CUD	Loss of vision, silt, finish	00:01:28		
3.07		SA	Survey abandoned: Camera unable to pass debris	00:01:29		

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	5.0	3.3	10.0	4.0

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Section Pictures - 06/03/2024 - RWG12X

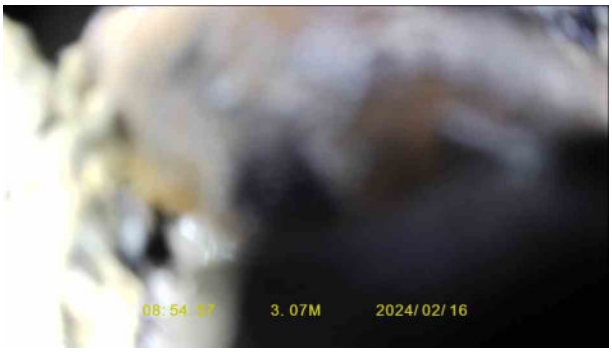
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
13	Downstream	RWG12X		

84b0b716-2f8d-4276-9b3f-552035c7ef7e.jpg, 00:00:19, 1.15 m
Settled deposits, coarse, 20% cross-sectional area loss, start

6dfa7ba2-8ce3-4a62-89f8-06e017bbc96c.jpg, 00:00:32, 1.24 m
Displaced bricks, single brick false from 10 o'clock to 3 o'clock,

e31a2e52-a6f1-4f0a-b689-c60b44c4b2d1.jpg, 00:00:44, 2.69 m
Settled deposits, coarse, 40% cross-sectional area loss,

7935c141-1592-43c0-a41b-1905a285488e.jpg, 00:00:44, 2.69 m
Displaced bricks, single brick False from 9 o'clock to 3 o'clock,



e9102b8b-30c3-494a-b751-db1916b8d585.jpg, 00:01:11, 3.07 m
Loss of vision, silt, start

4968c8fc-ea45-4da5-a1a5-ef71bcf6ede3.jpg, 00:01:29, 3.07 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
14	1	06/03/24	14:51	Not Specified	Not Specified	Not Specified	RWG13X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

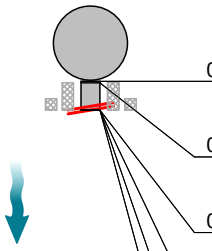
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG13
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	0.900 m
Location:		**Total Length:**	0.19 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: 0.90 m
RWG13



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:22		
0.01	S01	DES	Settled deposits, fine, 60% cross-sectional area loss, start	00:00:10		
0.19	F01	DES	Settled deposits, fine, 60% cross-sectional area loss, finish	00:00:02		4
0.19	F02	CUD	Loss of vision, silt, finish	00:00:05		
0.19	S02	CUD	Loss of vision, silt, start	00:00:17		
0.19		SA	Survey abandoned: Camera unable to pass debris	00:00:41		

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	8.0	42.1	8.0	5.0

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Section Pictures - 06/03/2024 - RWG13X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
14	Downstream	RWG13X		

ba401d94-9d63-4eab-954e-07c8f4bf1f0e.jpg, 00:00:10, 0.01 m
Settled deposits, fine, 60% cross-sectional area loss, start

d8e7e00b-3377-4f8a-87de-c07b6ee4c321.jpg, 00:00:17, 0.19 m
Loss of vision, silt, start

73afe08c-7a2a-4d40-8ce3-037b55db0272.jpg, 00:00:41, 0.19 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
15	1	06/03/24	14:52	Not Specified	Not Specified	Not Specified	RWG14X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

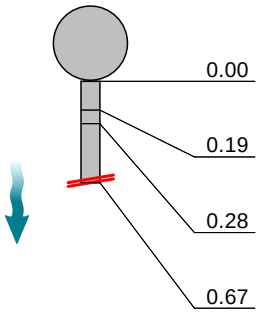
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG14
Road:	Swains Lane	**Inspected Length:**	0.67 m	**Upstream Pipe Depth:**	0.900 m
Location:		**Total Length:**	0.67 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Possible excavation

Scale: 1:50

Depth: 0.90 m
RWG14



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:01		
0.19	JDM	Joint displaced, medium	00:00:20		1 / 3
0.28	DES	Settled deposits, fine, 50% cross-sectional area loss	00:00:26		4
0.67	SA	Survey abandoned: Loss of vision due to debris	00:00:43		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	1.5	1.0	1.0	2	8.0	14.9	10.0	5.0

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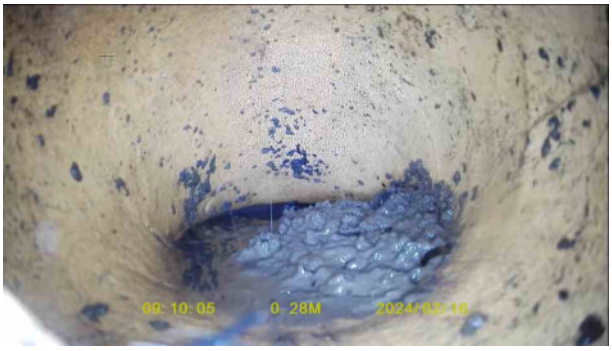
Section Pictures - 06/03/2024 - RWG14X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
15	Downstream	RWG14X		

8f0bf5e6-2d78-4aa6-8b3c-8a2c8bcca296.jpg, 00:00:20, 0.19 m
Joint displaced, medium



1e9cdfba-3271-4d31-a2cf-48931d3b215d.jpg, 00:00:26, 0.28 m
Settled deposits, fine, 50% cross-sectional area loss

cf300823-77a8-4ef8-b55a-cd2ccd0def01.jpg, 00:00:43, 0.67 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
16	1	06/03/24	14:55	Not Specified	Not Specified	Not Specified	RWG17X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

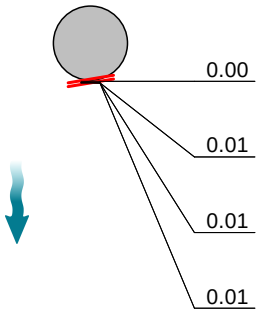
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG17
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	0.800 m
Location:		**Total Length:**	0.01 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: 0.80 m
RWG17



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:18		
0.01	DES	Settled deposits, fine, 60% cross-sectional area loss	00:00:20		4
0.01	CUD	Loss of vision, silt	00:00:37		
0.01	SA	Survey abandoned: Camera unable to pass debris	00:00:40		

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	8.0	800.0	8.0	5.0

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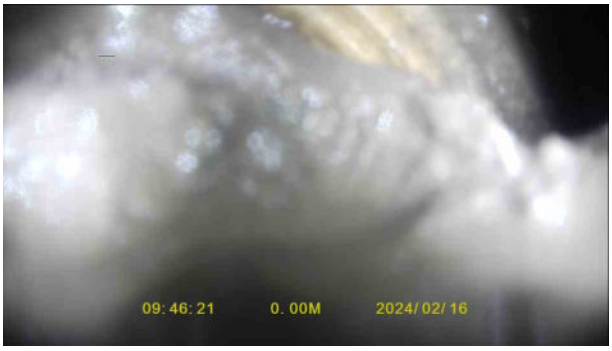
Section Pictures - 06/03/2024 - RWG17X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
16	Downstream	RWG17X		



18120b9a-0332-4f18-8b9b-99e803de7c2f.jpg, 00:00:20, 0.01 m
Settled deposits, fine, 60% cross-sectional area loss

a2453bc1-c0a7-47a5-841f-7e6745990ffc.jpg, 00:00:37, 0.01 m
Loss of vision, silt

44046d3b-b0a8-408e-ac10-c46087f17622.jpg, 00:00:40, 0.01 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
17	1	06/03/24	14:57	Not Specified	Not Specified	Not Specified	RWG22X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

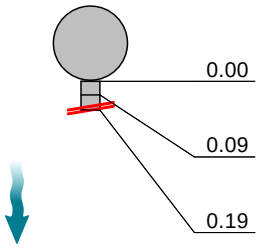
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG22
Road:	Swains Lane	**Inspected Length:**	0.19 m	**Upstream Pipe Depth:**	0.300 m
Location:		**Total Length:**	0.19 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Further investigation required

Scale: 1:50

Depth: 0.30 m
RWG22



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:22		
0.09	DES	Settled deposits, fine, 30% cross-sectional area loss	00:00:26		4
0.19	SA	Survey abandoned: Camera unable to push further	00:00:48		

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	5.0	26.3	5.0	5.0

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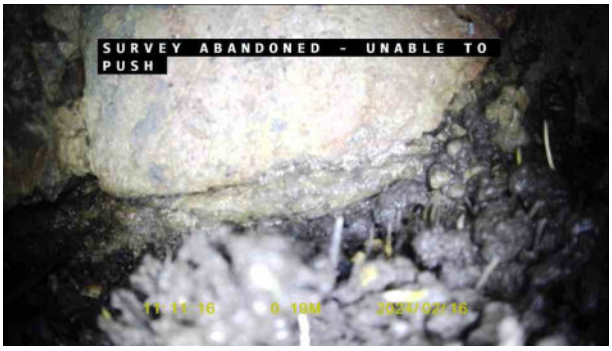
Section Pictures - 06/03/2024 - RWG22X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
17	Downstream	RWG22X		

f02a77e9-e2f1-4c09-8064-3d1f006b46ec.jpg, 00:00:26, 0.09 m
Settled deposits, fine, 30% cross-sectional area loss



b87e7292-ab06-4944-8366-2333d7a9a573.jpg, 00:00:48, 0.19 m
Survey abandoned, Camera unable to push further

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
18	1	06/03/24	14:58	Not Specified	Not Specified	Not Specified	RWG24X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

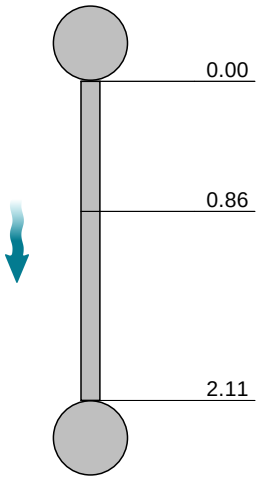
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG24
Road:	Swains Lane	**Inspected Length:**	2.11 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.11 m	**Downstream Node:**	MH4
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: m
RWG24



MH4
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:22		
0.86	REM	General remark: Deviation in line	00:00:32		
2.11	MHF	Finish node, manhole, reference: MH4	00:00:59		

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

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Section Pictures - 06/03/2024 - RWG24X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
18	Downstream	RWG24X		

013e92c3-14a1-478c-99df-9637fabe5c0f.jpg, 00:00:59, 2.11 m
Finish node, manhole, reference: MH4

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
19	1	06/03/24	15:00	Not Specified	Not Specified	Not Specified	MH3X

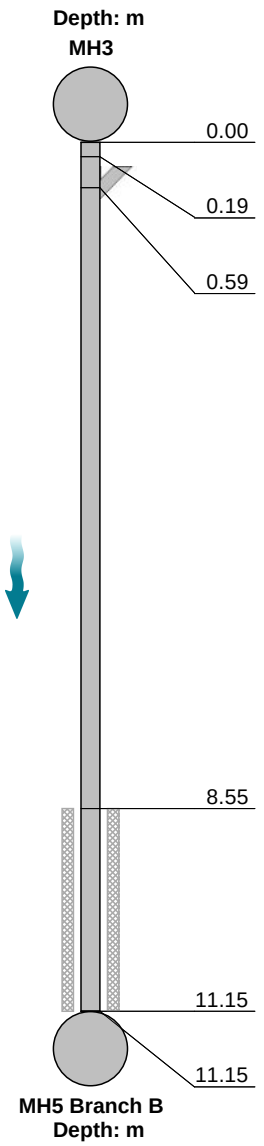
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH3
Road:	Swains Lane	**Inspected Length:**	11.15 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	11.15 m	**Downstream Node:**	MH5 BRANCH B
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:97



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:01:06		
0.19		DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:14		3
0.59		JXB	Junction, blocked at 10 o'clock, 150mm dia	00:00:16		
8.55	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:01:00		
11.15	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:01:19		4
11.15		MHF	Finish node, manhole, reference: MH5 Branch B	00:01:19		

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	2	5.0	1.5	17.0	4.0

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Section Pictures - 06/03/2024 - MH3X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
19	Downstream	MH3X		

a193fc46-fa23-471b-ba4e-6ba2f7f41d1e.jpg, 00:00:14, 0.19 m
Settled deposits, fine, 15% cross-sectional area loss

7d35edb2-a981-4e3e-9490-ae5dee594a66.jpg, 00:00:16, 0.59 m
Junction, blocked at 10 o'clock, 150mm dia

1cdcae68-ac06-4b81-8169-bb18b55dd423.jpg, 00:01:00, 8.55 m
Settled deposits, fine, 20% cross-sectional area loss, start

5594bd12-d4fa-41d8-b5f4-3b3c3d60c35d.jpg, 00:01:19, 11.15 m
Finish node, manhole, reference: MH5 Branch B

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
20	1	06/03/24	15:02	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

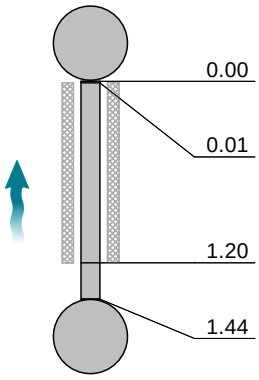
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.44 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.44 m	**Downstream Node:**	MH5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.070 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50

Depth: 1.07 m
MH5



Branch A
Depth: m

Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.01	S01	DES	Settled deposits, fine, 20% cross-sectional area loss, start	00:00:11		
1.20	F01	DES	Settled deposits, fine, 20% cross-sectional area loss, finish	00:00:31		4
1.44		GYF	Finish node, gully, reference: RWG25	00:00:31		

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	5.0	6.9	10.0	5.0

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Section Pictures - 06/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
20	Upstream	BRANCH AX		

a2dc3797-f61a-4ba7-bb9a-1e1d3a959971.jpg, 00:00:11, 0.01 m
Settled deposits, fine, 20% cross-sectional area loss, start

e48578f7-9577-432d-8bea-c8f437d28e42.jpg, 00:00:31, 1.44 m
Finish node, gully, reference: RWG25

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
21	1	06/03/24	15:03	Not Specified	Not Specified	Not Specified	MH5X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

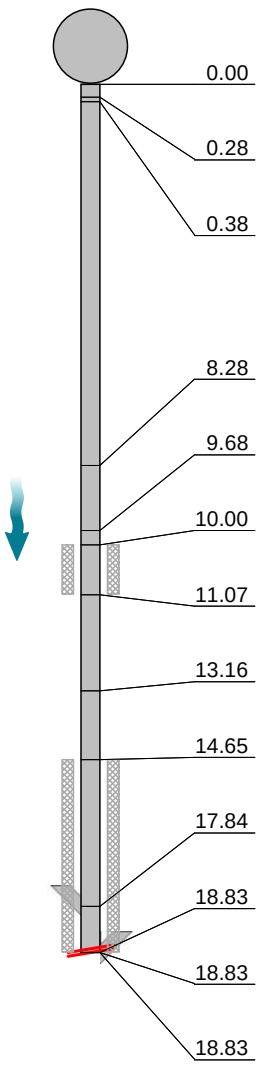
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH5
Road:	Swains Lane	**Inspected Length:**	18.83 m	**Upstream Pipe Depth:**	1.070 m
Location:		**Total Length:**	18.83 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Resurvey

Scale: 1:164

Depth: 1.07 m
MH5



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
0.28		JDM	Joint displaced, medium	00:00:39		1 / 3
0.38		JDM	Joint displaced, medium	00:01:03		1 / 3
8.28		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 5 o'clock, 15% cross-sectional area loss	00:02:26		3
9.68		DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 8 o'clock, 20% cross-sectional area loss	00:02:34		3
10.00	S01	DEE	Attached deposits, encrustation from 3 o'clock to 6 o'clock, 30% cross-sectional area loss, start	00:02:43		
11.07	F01	DEE	Attached deposits, encrustation from 3 o'clock to 6 o'clock, 30% cross-sectional area loss, finish	00:03:25		4
13.16		DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 8 o'clock, 25% cross-sectional area loss	00:03:44		4
14.65	S02	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 7 o'clock, 25% cross-sectional area loss, start	00:04:53		
17.84		JN	Junction at 2 o'clock, 150mm dia	00:05:39		
18.83		JN	Junction at 11 o'clock, 100mm dia	00:06:04		
18.83	F02	DEEJ	Attached deposits, encrustation at joint from 3 o'clock to 7 o'clock, 25% cross-sectional area loss, finish	00:07:00		4
18.83		SA	Survey abandoned: Camera unable to push further	00:07:00		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	1.0	0.1	2.0	1.0	7	7.0	2.5	48.0	4.0

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Section Pictures - 06/03/2024 - MH5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Downstream	MH5X		

665fee94-ec28-4250-ae46-7b492f39d699.jpg, 00:00:39, 0.28 m
Joint displaced, medium

577c0377-0c71-499c-9544-72f3aa53bc83.jpg, 00:01:03, 0.38 m
Joint displaced, medium

40adf8c3-9121-4654-9bc3-ba28ca5e23bb.jpg, 00:02:26, 8.28 m
Attached deposits, encrustation at joint from 12 o'clock to 5

ec57c0d9-4e86-40a5-b827-5f5e43b77d41.jpg, 00:02:34, 9.68 m
Attached deposits, encrustation at joint from 3 o'clock to 8

4af5cef2-5db1-4131-aa13-0ebe6428aa7f.jpg, 00:02:43, 10.00 m
Attached deposits, encrustation from 3 o'clock to 6 o'clock,

f43cf5ae-dbc6-46d7-a8e2-2457b71d9616.jpg, 00:03:44, 13.16 m
Attached deposits, encrustation at joint from 3 o'clock to 8

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Section Pictures - 06/03/2024 - MH5X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
21	Downstream	MH5X		

9b1df465-ba5a-4281-bed4-713f3c375753.jpg, 00:04:53, 14.65 m
Attached deposits, encrustation at joint from 3 o'clock to 7

3d116580-de87-4474-93a6-ef091f7398f8.jpg, 00:05:39, 17.84 m
Junction at 2 o'clock, 150mm dia

5fc6656d-dacf-4208-bb80-f0a318aef99e.jpg, 00:06:04, 18.83 m
Junction at 11 o'clock, 100mm dia

de9b4cd7-f0d2-432a-b32e-be68fcb09be2.jpg, 00:07:00, 18.83 m
Survey abandoned, Camera unable to push further

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
22	1	06/03/24	15:04	Not Specified	Not Specified	Not Specified	BRANCH CX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

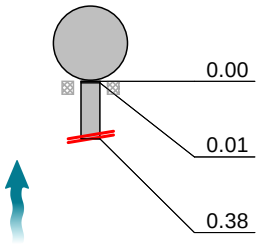
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH C
Road:	Swains Lane	**Inspected Length:**	0.38 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.38 m	**Downstream Node:**	MH5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.070 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further investigation required

Scale: 1:50

Depth: 1.07 m
MH5



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:02		
0.01	S01	DES	Settled deposits, fine, 30% cross-sectional area loss, start	00:00:11		4
0.38		SA	Survey abandoned: Further investigation required	00:00:26		

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	0.0	13.2	5.0	5.0

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Section Pictures - 06/03/2024 - Branch CX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
22	Upstream	BRANCH CX		

bd3cb6e8-d3e1-4268-9cfc-2e375bdc3a05.jpg, 00:00:11, 0.01 m
Settled deposits, fine, 30% cross-sectional area loss, start

3c00efde-69b7-42c1-98b3-cf335e25a556.jpg, 00:00:26, 0.38 m
Survey abandoned, Further investigation required

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
23	1	06/03/24	15:05	Not Specified	Not Specified	Not Specified	BRANCH DX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

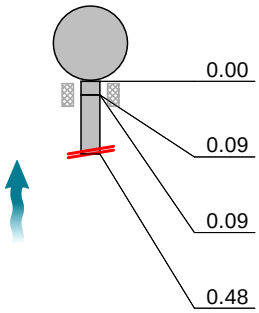
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH D
Road:	Swains Lane	**Inspected Length:**	0.48 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.48 m	**Downstream Node:**	MH5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.070 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further investigation required

Scale: 1:50

Depth: 1.07 m
MH5



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:11		
0.09		MCBR	Pipe material changes to brick at this point	00:00:14		
0.09	S01	DER	Settled deposits, coarse, 40% cross-sectional area loss, start	00:00:14		4
0.48		SA	Survey abandoned: Camera unable to pass debris	00:00:39		

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	0.0	10.4	5.0	5.0

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Section Pictures - 06/03/2024 - Branch DX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
23	Upstream	BRANCH DX		

2749778e-e127-4fee-85d2-547ac9196837.jpg, 00:00:14, 0.09 m
Settled deposits, coarse, 40% cross-sectional area loss, start

d284b3ad-28d3-422e-9f95-585843d0d021.jpg, 00:00:39, 0.48 m
Survey abandoned, Camera unable to pass debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
24	1	06/03/24	15:07	Not Specified	Not Specified	Not Specified	BRANCH EX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

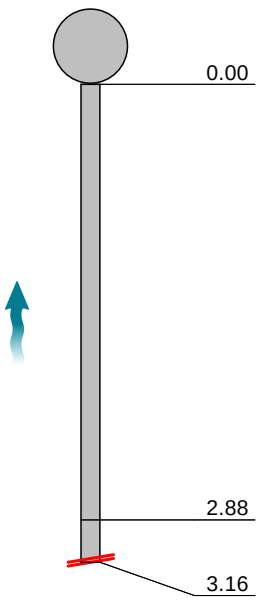
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH E
Road:	Swains Lane	**Inspected Length:**	3.16 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.16 m	**Downstream Node:**	MH5
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.070 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:50

Depth: 1.07 m
MH5



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:00		
2.88	DER	Settled deposits, coarse, 70% cross-sectional area loss	00:00:36		4
3.16	SA	Survey abandoned: Camera unable to pass debris	00:00:49		

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	8.0	2.5	8.0	4.0

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Section Pictures - 06/03/2024 - Branch EX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
24	Upstream	BRANCH EX		

f4d6a904-8467-4fc3-94f9-5545c6fd43c2.jpg, 00:00:36, 2.88 m
Settled deposits, coarse, 70% cross-sectional area loss

0f000214-7f3c-4309-82b6-efbfe00a12e8.jpg, 00:00:49, 3.16 m
Survey abandoned, Camera unable to pass debris

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	06/03/24	15:08	Not Specified	Not Specified	Not Specified	MH6X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

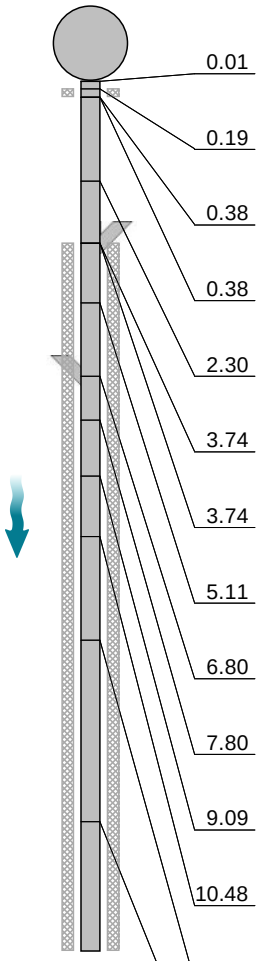
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH6
Road:	Swains Lane	**Inspected Length:**	22.99 m	**Upstream Pipe Depth:**	1.600 m
Location:		**Total Length:**	22.99 m	**Downstream Node:**	MH7
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend Picote/2XLSR's/Investigate possible bellies

Scale: 1:174

Depth: 1.60 m
MH6



Position [m]		Code	Observation	MPEG	Photo	Grade
0.01		WL	Water level, 15% of the vertical dimension	00:00:08		
0.19	S01	CUW	Loss of vision, camera under water, start	00:00:09		
0.38		JDM	Joint displaced, medium	00:00:13		1 / 3
0.38	F01	CUW	Loss of vision, camera under water, finish	00:00:15		
2.30		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 15% cross-sectional area loss	00:00:41		3
3.74	S02	DEE	Attached deposits, encrustation from 6 o'clock to 9 o'clock, 30% cross-sectional area loss, start	00:00:48		
3.74		CXI	Connection defective, connecting pipe is intruding at 10 o'clock, 150mm dia, intrusion: 20%	00:00:53		4
5.11		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 10% cross-sectional area loss	00:01:17		3
6.80		CXI	Connection defective, connecting pipe is intruding at 1 o'clock, 150mm dia, intrusion: 50%	00:01:37		4
7.80		DEEJ	Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 15% cross-sectional area loss	00:01:49		3
9.09		DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 8 o'clock, 20% cross-sectional area loss	00:02:00		3
10.48		DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 9 o'clock, 20% cross-sectional area loss	00:02:11		3
12.87		DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 11 o'clock, 30% cross-sectional area loss	00:02:31		4
17.05		JDM	Joint displaced, medium	00:03:02		1 / 3

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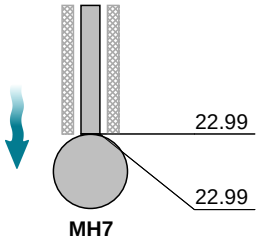
Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
25	1	06/03/24	15:08	Not Specified	Not Specified	Not Specified	MH6X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Scale: 1:174



Position [m]		Code	Observation	MPEG	Photo	Grade
22.99	F02	DEE	Attached deposits, encrustation from 6 o'clock to 9 o'clock, 30% cross-sectional area loss, finish	00:03:59		4
22.99		MHF	Finish node, manhole, reference: MH7	00:03:59		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	1.0	0.1	2.0	1.0	11	13.0	5.7	132.0	5.0

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Section Pictures - 06/03/2024 - MH6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Downstream	MH6X		

8baffc00-1084-4684-bc2b-f94469492d02.jpg, 00:00:08, 0.01 m
Water level, 15% of the vertical dimension

6f737828-695c-49ea-bcf3-75edf94a7ba3.jpg, 00:00:09, 0.19 m
Loss of vision, camera under water, start

43fb38b2-6110-4a95-8fd4-09d5dc22a300.jpg, 00:00:13, 0.38 m
Joint displaced, medium

32e4f982-7d43-48bf-8c44-f932a7952cc4.jpg, 00:00:41, 2.30 m
Attached deposits, encrustation at joint from 12 o'clock to 12 o'clock, 15% cross-sectional area loss

e94015b3-ed59-45f9-848b-a6e22f99c630.jpg, 00:00:48, 3.74 m
Attached deposits, encrustation from 6 o'clock to 9 o'clock,

25429ab5-a586-4df5-9b40-2c0439df4630.jpg, 00:00:53, 3.74 m
Connection defective, connecting pipe is intruding at 10

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Section Pictures - 06/03/2024 - MH6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Downstream	MH6X		

d7657106-80da-4f98-885f-3660c731a98d.jpg, 00:01:17, 5.11 m
Attached deposits, encrustation at joint from 12 o'clock to 12

9fe7f2ed-5c9a-4730-af14-163464b89487.jpg, 00:01:37, 6.80 m
Connection defective, connecting pipe is intruding at 1 o'clock,

2e4e80b4-c8d3-4cd7-ae00-f610bb2f986c.jpg, 00:01:49, 7.80 m
Attached deposits, encrustation at joint from 12 o'clock to 12

25845356-a660-487b-aea4-d6a70e377d5f.jpg, 00:02:00, 9.09 m
Attached deposits, encrustation at joint from 4 o'clock to 8

974cc9ab-f178-4677-8b46-f403d2fa1616.jpg, 00:02:11, 10.48 m
Attached deposits, encrustation at joint from 7 o'clock to 9

22f12925-390f-4c45-80db-538b3d662c09.jpg, 00:02:31, 12.87 m
Attached deposits, encrustation at joint from 4 o'clock to 11

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Section Pictures - 06/03/2024 - MH6X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
25	Downstream	MH6X		

26c73e70-8711-4829-a15d-ed0453455f97.jpg, 00:03:02, 17.05 m
Joint displaced, medium

83ddbfa6-0a53-4e15-a2e9-e86f43170ad6.jpg, 00:03:59, 22.99 m
Finish node, manhole, reference: MH7

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
26	1	06/03/24	15:10	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

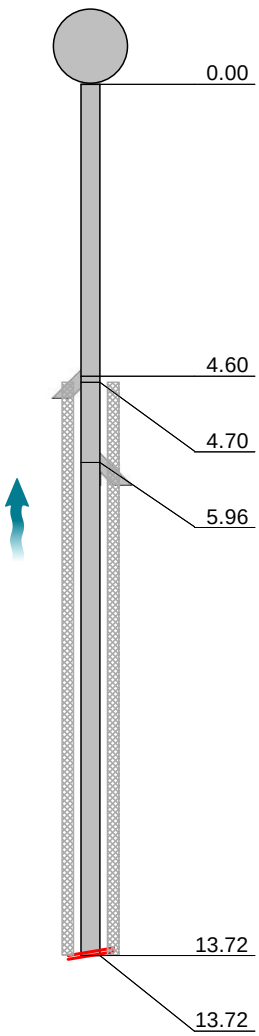
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	13.72 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	13.72 m	**Downstream Node:**	MH6
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.600 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Resurvey

Scale: 1:119

Depth: 1.60 m
MH6



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:00		
4.60		JN	Junction at 2 o'clock, 150mm dia	00:00:48		
4.70	S01	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 20% cross-sectional area loss, start	00:01:01		
5.96		JN	Junction at 10 o'clock, 150mm dia	00:01:14		
13.72	F01	DEE	Attached deposits, encrustation from 3 o'clock to 5 o'clock, 20% cross-sectional area loss, finish	00:02:14		3
13.72		SA	Survey abandoned: Camera unable to debris	00:02:14		

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	2.0	1.5	20.0	3.0

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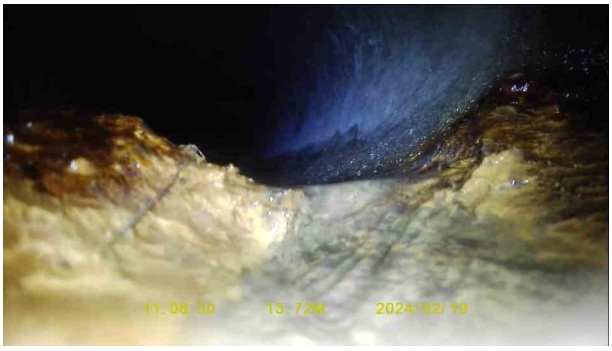
Section Pictures - 06/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
26	Upstream	UPSTREAMX		

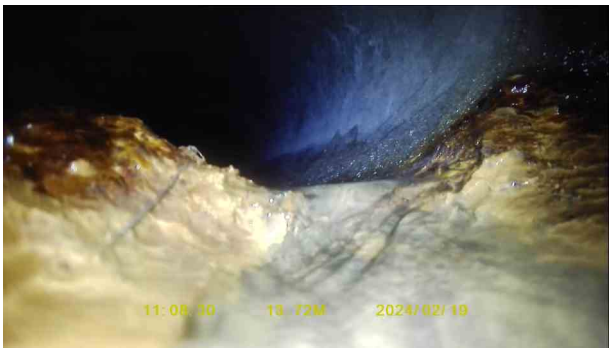
ea7c058d-daaf-4996-92bc-a8d505804fc6.jpg, 00:00:48, 4.60 m
Junction at 2 o'clock, 150mm dia

ac3e9b83-6581-407c-a00c-a1c81769c22a.jpg, 00:01:01, 4.70 m
Attached deposits, encrustation from 3 o'clock to 5 o'clock,

884efa80-ca89-4eb6-874e-267426a38cd7.jpg, 00:01:14, 5.96 m
Junction at 10 o'clock, 150mm dia



73255367-82f0-46a0-ae9f-d90a988d73ae.jpg, 00:02:14, 13.72 m
Attached deposits, encrustation from 3 o'clock to 5 o'clock,



dbcb47f1-233f-4917-8141-105e614008ea.jpg, 00:02:14, 13.72 m
Survey abandoned, Camera unable to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
27	1	07/03/24	9:23	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

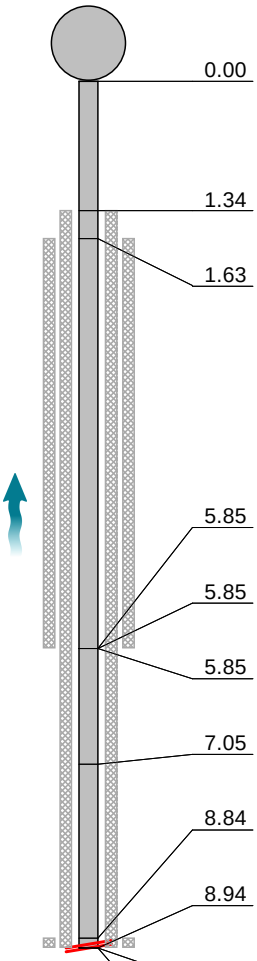
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	8.94 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	8.94 m	**Downstream Node:**	MH7
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	2.190 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	300 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Further invstigation required

Scale: 1:78

Depth: 2.19 m
MH7



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:59		
1.34	S01	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss, start	00:00:22		
1.63	S02	CUD	Loss of vision, silt, start	00:00:23		
5.85		WL	Water level, 20% of the vertical dimension	00:01:43		
5.85		MCBR	Pipe material changes to brick at this point	00:01:43		
5.85	F02	CUD	Loss of vision, silt, finish	00:01:46		
7.05	C01	DEE	Attached deposits, encrustation from 3 o'clock to 7 o'clock, 30% cross-sectional area loss, change	00:02:16		
8.84	S03	CUD	Loss of vision, silt, start	00:02:39		
8.94	F01	DEE	Attached deposits, encrustation from 3 o'clock to 7 o'clock, 30% cross-sectional area loss, finish	00:02:56		3
8.94	F03	CUD	Loss of vision, silt, finish	00:02:56		
8.94		SA	Survey abandoned: Loss of vision due to debris	00:02:56		

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	2.0	1.8	16.0	3.0

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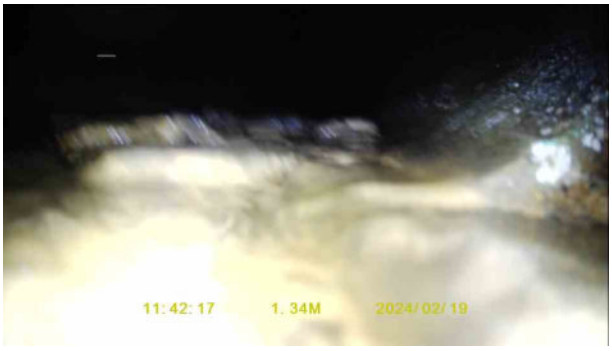
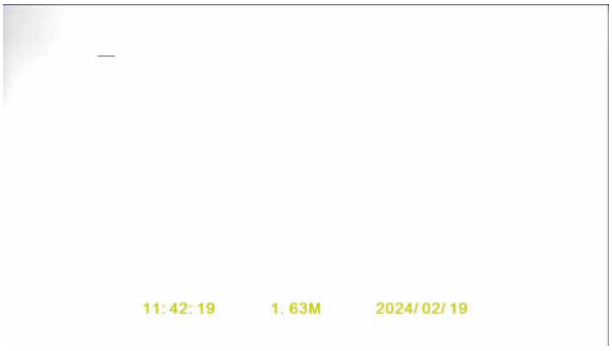
Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
27	Upstream	BRANCH AX		



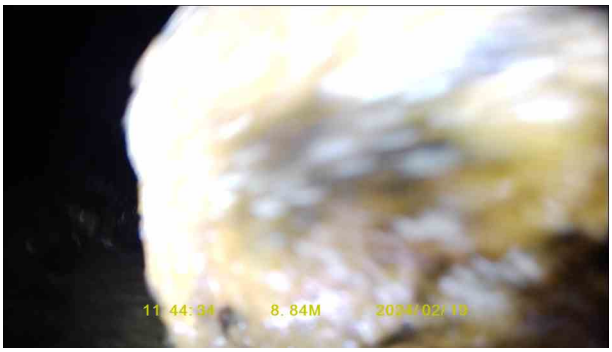
9756b4a2-deb9-45bb-8b75-6d662cbf43ec.jpg, 00:00:22, 1.34 m
Attached deposits, encrustation from 5 o'clock to 7 o'clock,



62d1bf32-a877-49a6-b3d0-e06bfbbea642.jpg, 00:00:23, 1.63 m
Loss of vision, silt, start

35093da4-12c9-48a7-943c-8b2002ff15c3.jpg, 00:01:43, 5.85 m
Water level, 20% of the vertical dimension

ed780d85-16dd-4e26-8e1c-0f15d63ba222.jpg, 00:02:16, 7.05 m
Attached deposits, encrustation from 3 o'clock to 7 o'clock,



3d2fe9d2-192c-4a78-a9c2-36f27d820f41.jpg, 00:02:39, 8.84 m
Loss of vision, silt, start

68a5d1b3-0594-4ad7-8c6b-f537cc0fd414.jpg, 00:02:56, 8.94 m
Survey abandoned, Loss of vision due to debris

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
28	1	07/03/24	9:25	Not Specified	Not Specified	Not Specified	BRANCH CX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

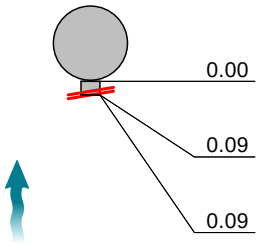
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH C
Road:	Swains Lane	**Inspected Length:**	0.09 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.09 m	**Downstream Node:**	MH7
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: m
MH7



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:01:13		
0.09	DER	Settled deposits, coarse, 90% cross-sectional area loss	00:00:10		5
0.09	SA	Survey abandoned: Disused	00:00:12		

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	10.0	111.1	10.0	5.0

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Section Pictures - 07/03/2024 - Branch CX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
28	Upstream	BRANCH CX		

63c30535-253e-4492-9378-4942cecf6de7.jpg, 00:00:10, 0.09 m
Settled deposits, coarse, 90% cross-sectional area loss

77bd05ec-a575-4cef-8f06-9d9bc9e019ed.jpg, 00:00:12, 0.09 m
Survey abandoned, Disused

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
29	1	07/03/24	9:51	Not Specified	Not Specified	Not Specified	MH7X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

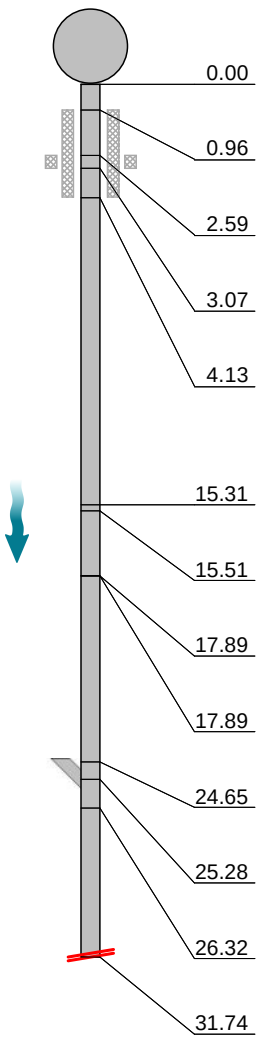
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH7
Road:	Swains Lane	**Inspected Length:**	31.74 m	**Upstream Pipe Depth:**	2.190 m
Location:		**Total Length:**	31.74 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	400 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Root cut/Relining/Investigate possible bellies

Scale: 1:275

Depth: 2.19 m
MH7



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:12		
0.96	S01	DEEJ	Attached deposits, encrustation at joint from 2 o'clock to 7 o'clock, 20% cross-sectional area loss, start	00:00:14		
2.59	S02	CUW	Loss of vision, camera under water, start	00:00:24		
3.07	F02	CUW	Loss of vision, camera under water, finish	00:00:32		
4.13	F01	DEEJ	Attached deposits, encrustation at joint from 2 o'clock to 7 o'clock, 20% cross-sectional area loss, finish	00:00:46		3
15.31		RTJ	Roots, tap at joint	00:01:44		4
15.51		JDL	Joint displaced, large	00:01:44		1 / 4
17.89		RTJ	Roots, tap at joint	00:02:08		4
17.89		JDL	Joint displaced, large	00:02:08		1 / 4
24.65		JDL	Joint displaced, large	00:02:49		1 / 4
25.28		JN	Junction at 1 o'clock, 150mm dia	00:02:54		
26.32		JDL	Joint displaced, large	00:03:03		1 / 4
31.74		SA	Survey abandoned: Camera unable to push further	00:03:44		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
4	2.0	0.3	8.0	1.0	7	10.0	1.2	38.0	5.0

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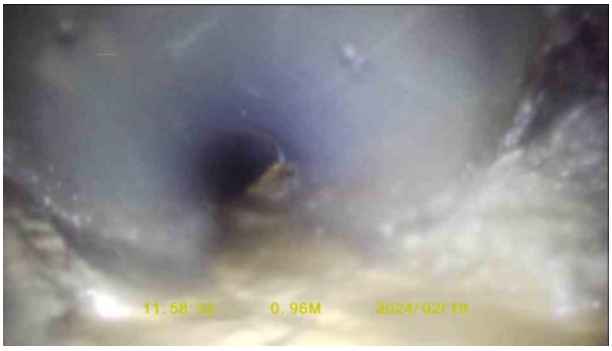
Section Pictures - 07/03/2024 - MH7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	Downstream	MH7X		



7a5d2fc7-f41c-4101-9c53-568f3bec3a03.jpg, 00:00:14, 0.96 m
Attached deposits, encrustation at joint from 2 o'clock to 7 o'clock, 20% cross-sectional area loss, start

b11b167a-f225-49e8-8c7f-4c5b5233f6a4.jpg, 00:00:24, 2.59 m
Loss of vision, camera under water, start

cfd37089-f5b5-48ce-ac96-437949ebdf9e.jpg, 00:01:44, 15.31 m
Roots, tap at joint

5bc5e9c3-7372-459e-bec9-e99023f639ba.jpg, 00:01:44, 15.51 m
Joint displaced, large

6aaf9e92-ed2e-4459-af05-5463ec3b53e4.jpg, 00:02:08, 17.89 m
Roots, tap at joint

077590d8-4c9b-4e1f-9992-55e9dadfdb62.jpg, 00:02:08, 17.89 m
Joint displaced, large

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Section Pictures - 07/03/2024 - MH7X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
29	Downstream	MH7X		

48778814-9246-4c73-ba73-c912ead5b075.jpg, 00:02:49, 24.65 m
Joint displaced, large

5c7aa283-64f9-4da0-b400-cf3cc3160b30.jpg, 00:02:54, 25.28 m
Junction at 1 o'clock, 150mm dia

510d2746-6122-4fdc-ac3b-1094141f82cf.jpg, 00:03:03, 26.32 m
Joint displaced, large

fad08eb9-8ce5-4b49-812a-45c4178156dd.jpg, 00:03:44, 31.74 m
Survey abandoned, Camera unable to push further

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
30	1	07/03/24	9:52	Not Specified	Not Specified	Not Specified	MH8X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

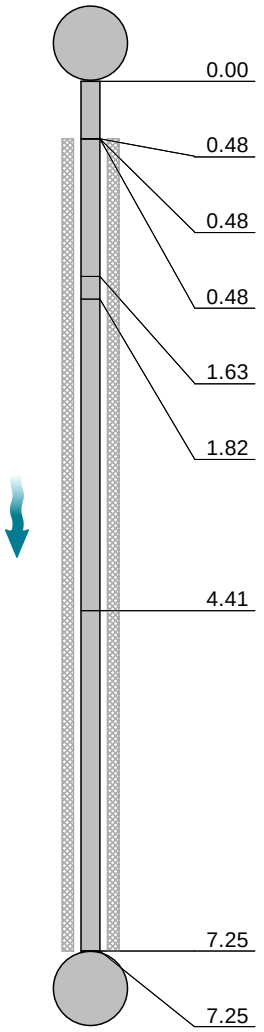
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH8
Road:	Swains Lane	**Inspected Length:**	7.25 m	**Upstream Pipe Depth:**	1.500 m
Location:		**Total Length:**	7.25 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	400 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Root cut/Relining

Scale: 1:63

Depth: 1.50 m
MH8



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:28		
0.48		JDL	Joint displaced, large	00:00:12		1 / 4
0.48		DEEJ	Attached deposits, encrustation at joint from 5 o'clock to 8 o'clock, 25% cross-sectional area loss	00:00:12		4
0.48	S01	RMJ	Roots, mass at joint, 20% cross-sectional area loss, start	00:00:12		
1.63		JDL	Joint displaced, large	00:00:39		1 / 4
1.82		RTJ	Roots, tap at joint	00:00:46		4
4.41		RTJ	Roots, tap at joint	00:00:56		4
7.25	F01	RMJ	Roots, mass at joint, 20% cross-sectional area loss, finish	00:01:11		5
7.25		MHF	Finish node, manhole, reference: Downstream: Unknown Chamber	00:01:11		

Downstream
Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	2.0	0.6	4.0	1.0	6	20.0	13.1	95.0	5.0

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Section Pictures - 07/03/2024 - MH8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
30	Downstream	MH8X		

9ef8f719-6f34-4061-9c71-530c3ecf69fb.jpg, 00:00:12, 0.48 m
Joint displaced, large

66386fb9-964f-40e2-b990-b4504dcca0eb.jpg, 00:00:12, 0.48 m
Attached deposits, encrustation at joint from 5 o'clock to 8

2e89adef-f018-4708-8a79-ba4d7296c35f.jpg, 00:00:12, 0.48 m
Roots, mass at joint, 20% cross-sectional area loss, start

979dab86-6af4-43fd-83df-ea5f15483789.jpg, 00:00:39, 1.63 m
Joint displaced, large

5769829f-e1f7-44b6-84d6-26706f8fbbf2.jpg, 00:00:46, 1.82 m
Roots, tap at joint

2cc2f0bb-4106-4f9a-aa5e-a43e4c66eafe.jpg, 00:00:56, 4.41 m
Roots, tap at joint

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Section Pictures - 07/03/2024 - MH8X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
30	Downstream	MH8X		

864f9b02-5ca8-4ca5-943a-17c41c45fed0.jpg, 00:01:11, 7.25 m
Finish node, manhole, reference: Downstream, Unknown

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
31	1	07/03/24	9:54	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

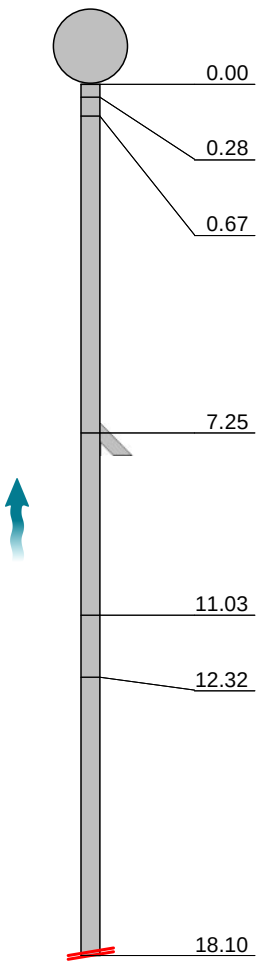
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	18.10 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	18.10 m	**Downstream Node:**	MH8
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	1.500 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	400 mm
Flow Control:		**Material:**	Concrete
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/Relining/Resurvery

Scale: 1:157

Depth: 1.50 m
MH8



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:01:12		
0.28	DES	Settled deposits, fine, 20% cross-sectional area loss	00:00:15		4
0.67	JDM	Joint displaced, medium	00:00:24		1 / 3
7.25	JN	Junction at 9 o'clock, 150mm dia	00:01:22		
11.03	JDM	Joint displaced, medium	00:01:41		1 / 3
12.32	JDM	Joint displaced, medium	00:01:47		1 / 3
18.10	SA	Survey abandoned: Camera unable to push further	00:02:29		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	1.0	0.2	3.0	1.0	4	5.0	0.6	11.0	4.0

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
31	Upstream	UPSTREAMX		

c90c49cb-90c8-4c29-b9e6-25c9edb953bc.jpg, 00:00:15, 0.28 m
Settled deposits, fine, 20% cross-sectional area loss

ef996390-ddfa-4960-9671-61ea9d940e87.jpg, 00:00:24, 0.67 m
Joint displaced, medium

ed25be0b-d9fb-40a3-b387-61b8707a9e33.jpg, 00:01:22, 7.25 m
Junction at 9 o'clock, 150mm dia

c0b29321-b805-4a0e-ad8a-f4155bced4b7.jpg, 00:01:41, 11.03 m
Joint displaced, medium

e3ef380b-964e-4a72-a3f0-f538712dbf1e.jpg, 00:01:47, 12.32 m
Joint displaced, medium

bd9add86-3620-47fd-a734-39fc3966ba3d.jpg, 00:02:29, 18.10 m
Survey abandoned, Camera unable to push further

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
32	1	07/03/24	9:56	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

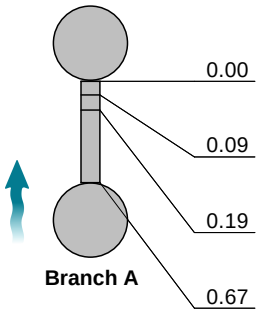
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.67 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.67 m	**Downstream Node:**	MH9
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.600 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:50

Depth: 0.60 m
MH9



Branch A

Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:02:00		
0.09	DES	Settled deposits, fine, 15% cross-sectional area loss	00:00:10		3
0.19	LU	Line deviates up	00:00:48		
0.67	GYF	Finish node, gully, reference: Branch A	00:00:48		

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	2.0	3.0	2.0	4.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
32	Upstream	BRANCH AX		

f07e7265-1a78-4885-83d7-e3071f993674.jpg, 00:00:10, 0.09 m
Settled deposits, fine, 15% cross-sectional area loss

ff52969e-2672-47c1-9aef-976348bccb2d.jpg, 00:00:48, 0.67 m
Finish node, gully, reference: Branch A

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
33	1	07/03/24	9:57	Not Specified	Not Specified	Not Specified	MH9X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

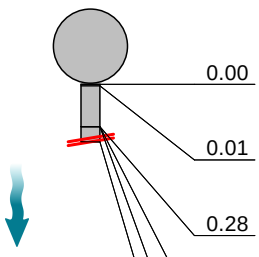
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH9
Road:	Swains Lane	**Inspected Length:**	0.38 m	**Upstream Pipe Depth:**	0.600 m
Location:		**Total Length:**	0.38 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR/Resurvey

Scale: 1:50

Depth: 0.60 m
MH9



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:02		
0.01	LD	Line deviates down	00:00:09		
0.28	REM	General remark: Deviation in line	00:00:14		
0.28	MCVC	Pipe material changes to vitrified clay at this point	00:00:18		
0.28	JDL	Joint displaced, large	00:00:18		1 / 4
0.38	SA	Survey abandoned: Camera unable to pass JDL	00:00:29		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	5.3	2.0	1.0	1	5.0	13.2	5.0	5.0

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Section Pictures - 07/03/2024 - MH9X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
33	Downstream	MH9X		

19414010-d444-4786-ba73-fbb897affb06.jpg, 00:00:18, 0.28 m
Joint displaced, large

dc8cd36c-e0e8-45ce-b8dd-c6d740336fe6.jpg, 00:00:29, 0.38 m
Survey abandoned, Camera unable to pass JDL

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
34	1	07/03/24	10:00	Not Specified	Not Specified	Not Specified	UPSTREAMX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

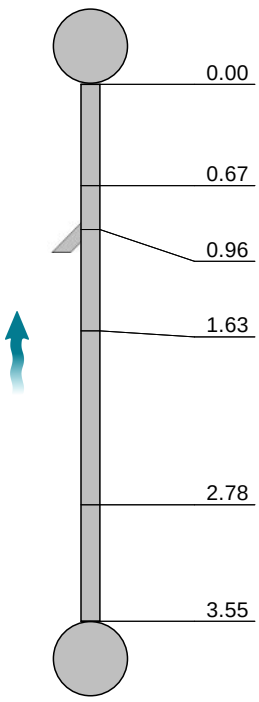
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	UPSTREAM
Road:	Swains Lane	**Inspected Length:**	3.55 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	3.55 m	**Downstream Node:**	MH9
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.600 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50

Depth: 0.60 m
MH9



Upstream
Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:20		
0.67	LL	Line deviates left	00:00:14		
0.96	JN	Junction at 3 o'clock, 100mm dia	00:00:17		
1.63	LR	Line deviates right	00:00:55		
2.78	LR	Line deviates right	00:01:05		
3.55	GYF	Finish node, gully, reference: Upstream	00:01:19		

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

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Section Pictures - 07/03/2024 - UpstreamX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
34	Upstream	UPSTREAMX		

41f72c97-9439-41e7-b088-fc9b7d6f4cbe.jpg, 00:00:17, 0.96 m
Junction at 3 o'clock, 100mm dia

3cb6016e-00e2-42e6-84af-f0a38952b4d5.jpg, 00:01:19, 3.55 m
Finish node, gully, reference: Upstream

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
35	1	07/03/24	10:01	Not Specified	Not Specified	Not Specified	RWG27X

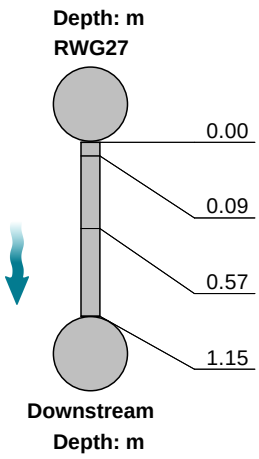
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG27
Road:	Swains Lane	**Inspected Length:**	1.15 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.15 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:33		
0.09	LD	Line deviates down	00:00:13		
0.57	REM	General remark: Deviation in line	00:00:21		
1.15	MHF	Finish node, manhole, reference: Downstream: Blind connection	00:00:30		

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

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Section Pictures - 07/03/2024 - RWG27X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
35	Downstream	RWG27X		

1dea0eed-7dfc-4c31-91b7-6f84a9db01eb.jpg, 00:00:30, 1.15 m
Finish node, manhole, reference: Downstream, Blind

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
36	1	07/03/24	10:24	Not Specified	Not Specified	Not Specified	RWG28X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

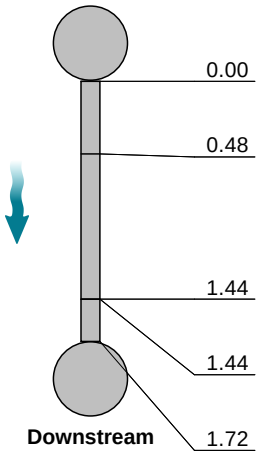
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG28
Road:	Swains Lane	**Inspected Length:**	1.72 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.72 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR

Scale: 1:50

Depth: m
RWG28



Downstream

Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:33		
0.48	LD	Line deviates down	00:00:10		
1.44	MCVC	Pipe material changes to vitrified clay at this point	00:00:17		
1.44	JDL	Joint displaced, large	00:00:17		1 / 4
1.72	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:25		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	2.0	1.2	2.0	1.0	1	5.0	2.9	5.0	4.0

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Section Pictures - 07/03/2024 - RWG28X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
36	Downstream	RWG28X		

77433b44-5b3a-43c0-89b1-d2bb0d35f7f7.jpg, 00:00:17, 1.44 m
Joint displaced, large

d49db12e-7dcc-40d2-ac65-b00e8a8d0aed.jpg, 00:00:25, 1.72 m
Finish node, manhole, reference: Downstream, Blind junction

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
37	1	07/03/24	10:26	Not Specified	Not Specified	Not Specified	RWG29X

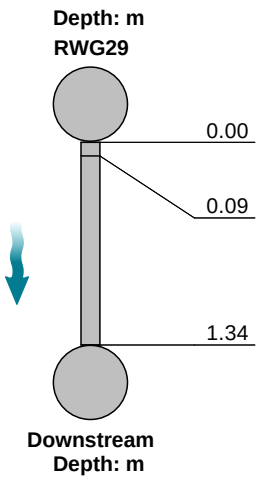
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG29
Road:	Swains Lane	**Inspected Length:**	1.34 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.34 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:29		
0.09	LD	Line deviates down	00:00:11		
1.34	MHF	Finish node, manhole, reference: Downstream: Blind connection	00:00:30		

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

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Section Pictures - 07/03/2024 - RWG29X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
37	Downstream	RWG29X		

308ae893-16fb-4795-88ba-b6aba68d58e3.jpg, 00:00:30, 1.34 m
Finish node, manhole, reference: Downstream, Blind

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
38	1	07/03/24	10:28	Not Specified	Not Specified	Not Specified	RWG30X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

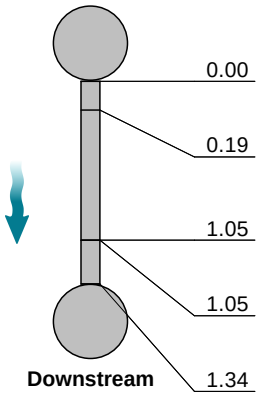
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG30
Road:	Swains Lane	**Inspected Length:**	1.34 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.34 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend root cut/LSR

Scale: 1:50

Depth: m
RWG30



Downstream

Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:36		
0.19	LD	Line deviates down	00:00:10		
1.05	MCVC	Pipe material changes to vitrified clay at this point	00:00:21		
1.05	RFJ	Roots, fine at joint	00:00:21		2
1.34	MHF	Finish node, manhole, reference: Downstream: Blind junction	00:00:29		

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	0.7	1.0	2.0

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Section Pictures - 07/03/2024 - RWG30X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
38	Downstream	RWG30X		

75738fd2-057a-42e3-8af6-84ea17b29526.jpg, 00:00:21, 1.05 m
Roots, fine at joint

baeecc9c-6492-4e2f-8d1a-066f5c7e8907.jpg, 00:00:29, 1.34 m
Finish node, manhole, reference: Downstream, Blind junction

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
39	1	07/03/24	10:29	Not Specified	Not Specified	Not Specified	RWG26X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

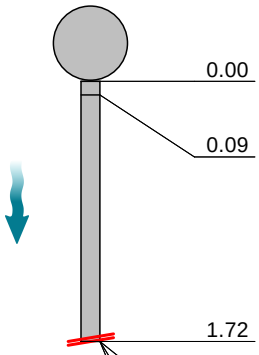
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	RWG26
Road:	Swains Lane	**Inspected Length:**	1.72 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.72 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend excavation/Resurvey

Scale: 1:50

Depth: m
RWG26



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:35		
0.09	LD	Line deviates down	00:00:14		
1.72	MCVC	Pipe material changes to vitrified clay at this point	00:00:21		
1.72	JDL	Joint displaced, large	00:01:00		1 / 4
1.72	OJL	Open joint, large	00:01:00		1
1.72	SA	Survey abandoned: Camera unable to pass OJL/JDL	00:00:58		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	4.0	2.3	4.0	1.0	1	5.0	2.9	5.0	4.0

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Section Pictures - 07/03/2024 - RWG26X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
39	Downstream	RWG26X		

46a9c229-a384-4b90-8825-e392ff907ccf.jpg, 00:00:21, 1.72 m
Pipe material changes to vitrified clay at this point

46a9c229-a384-4b90-8825-e392ff907ccf.jpg, 00:01:00, 1.72 m
Joint displaced, large

a12f9621-363e-4716-a179-4259851e7146.jpg, 00:01:00, 1.72 m
Open joint, large

644f0a5a-3b8e-45d1-9ddd-94a4859114db.jpg, 00:00:58, 1.72 m
Survey abandoned, Camera unable to pass OJL/JDL

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
40	1	07/03/24	10:30	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

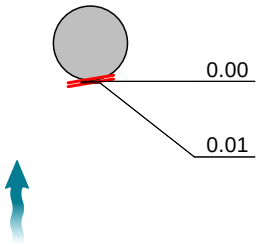
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.01 m	**Downstream Node:**	MH1
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	5.150 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	150 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: **1:50**

Depth: 5.15 m
MH1



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:01:00		
0.01	SA	Survey abandoned: Redundant	00:00:33		

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

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
40	Upstream	BRANCH AX		

35029dbd-931a-4a6e-b368-7022e0edb8a7.jpg, 00:00:33, 0.01 m
Survey abandoned, Redundant

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Abandoned section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
41	1	07/03/24	10:31	Not Specified	Not Specified	Not Specified	BRANCH AX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

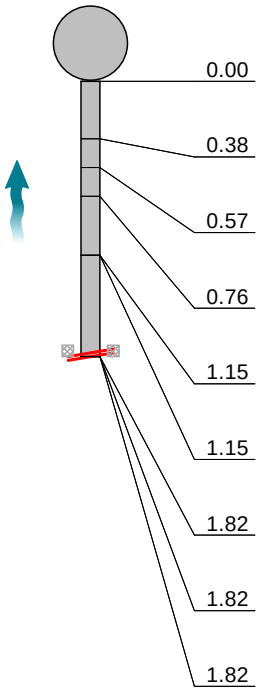
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	1.82 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	1.82 m	**Downstream Node:**	MH10
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.800 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR/Resurvey

Scale: 1:50

Depth: 0.80 m
MH10



Position [m]		Code	Observation	MPEG	Photo	Grade
0.00		WL	Water level, 0% of the vertical dimension	00:00:34		
0.38		JDM	Joint displaced, medium	00:00:15		1 / 3
0.57		LR	Line deviates right	00:00:22		
0.76		BJ	Broken pipe at joint from 1 o'clock to 5 o'clock	00:00:23		4
1.15		LL	Line deviates left	00:00:32		
1.15		DES	Settled deposits, fine, 20% cross-sectional area loss	00:00:39		4
1.82		JDM	Joint displaced, medium	00:00:42		1 / 3
1.82	S01	DER	Settled deposits, coarse, 30% cross-sectional area loss, start	00:00:47		4
1.82		SA	Survey abandoned: Camera unable to pass debris	00:01:04		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	80.0	45.1	82.0	4.0	4	5.0	7.7	14.0	5.0

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
41	Upstream	BRANCH AX		

94c4cd49-8989-4d64-ba70-694f6b00c783.jpg, 00:00:15, 0.38 m
Joint displaced, medium

b1ec5c73-cb1b-4989-bafa-742fbe4b7188.jpg, 00:00:39, 1.15 m
Settled deposits, fine, 20% cross-sectional area loss

d2831d65-8e38-403f-8a5f-c8cc4d858d74.jpg, 00:00:42, 1.82 m
Joint displaced, medium

2972d6b0-2d48-4596-bb9a-7648fd527920.jpg, 00:00:47, 1.82 m
Settled deposits, coarse, 30% cross-sectional area loss, start

1dff81b8-6366-44e7-99e8-c7580857e882.jpg, 00:01:04, 1.82 m
Survey abandoned, Camera unable to pass debris

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
42	1	07/03/24	10:33	Not Specified	Not Specified	Not Specified	BRANCH BX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

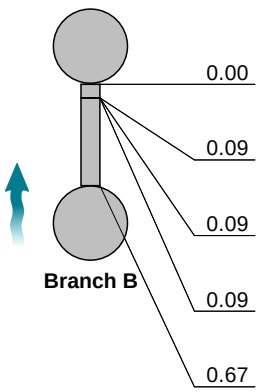
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	0.67 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.67 m	**Downstream Node:**	MH10
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations:

Scale: 1:50

Depth: m
MH10



Depth: m

Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:24		
0.09	DEEJ	Attached deposits, encrustation at joint from 7 o'clock to 11 o'clock, 15% cross-sectional area loss	00:00:13		3
0.09	BJ	Broken pipe at joint from 9 o'clock to 4 o'clock	00:00:13		4
0.09	LR	Line deviates right	00:00:15		
0.67	MHF	Finish node, manhole, reference: Branch B: Capped	00:00:36		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	80.0	119.4	80.0	4.0	1	2.0	3.0	2.0	4.0

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Section Pictures - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
42	Upstream	BRANCH BX		

c9179bda-0f0a-4f25-a2db-2d0fef5be277.jpg, 00:00:13, 0.09 m
Attached deposits, encrustation at joint from 7 o'clock to 11 o'clock, 15% cross-sectional area loss

e02efbb9-b02d-404c-88dc-d7230a88ceff.jpg, 00:00:13, 0.09 m
Broken pipe at joint from 9 o'clock to 4 o'clock

aea4d164-a499-4ccc-8d45-8b070c3022a0.jpg, 00:00:36, 0.67 m
Finish node, manhole, reference: Branch B, Capped

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
43	1	07/03/24	10:34	Not Specified	Not Specified	Not Specified	BRANCH CX

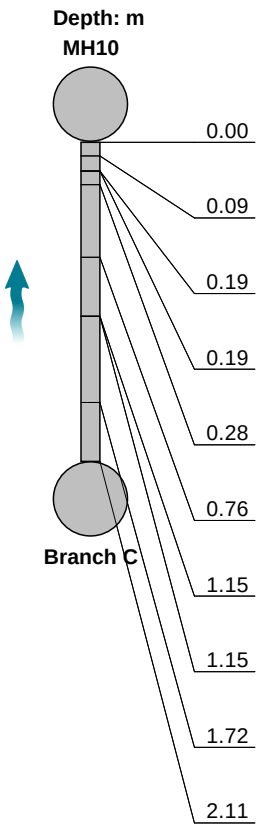
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH C
Road:	Swains Lane	**Inspected Length:**	2.11 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	2.11 m	**Downstream Node:**	MH10
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:21		
0.09	JDM	Joint displaced, medium	00:00:10		1 / 3
0.19	LR	Line deviates right	00:00:11		
0.19	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 8 o'clock, 20% cross-sectional area loss	00:00:14		3
0.28	JDM	Joint displaced, medium	00:00:18		1 / 3
0.76	DEEJ	Attached deposits, encrustation at joint from 4 o'clock to 7 o'clock, 15% cross-sectional area loss	00:00:26		3
1.15	JDM	Joint displaced, medium	00:00:34		1 / 3
1.15	MCPVC	Pipe material changes to polyvinyl chloride at this point	00:00:42		
1.72	LU	Line deviates up	00:00:42		
2.11	MHF	Finish node, manhole, reference: Branch C: Rest bend	00:00:45		

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
3	1.0	1.4	3.0	1.0	5	2.0	4.7	10.0	4.0

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Section Pictures - 07/03/2024 - Branch CX

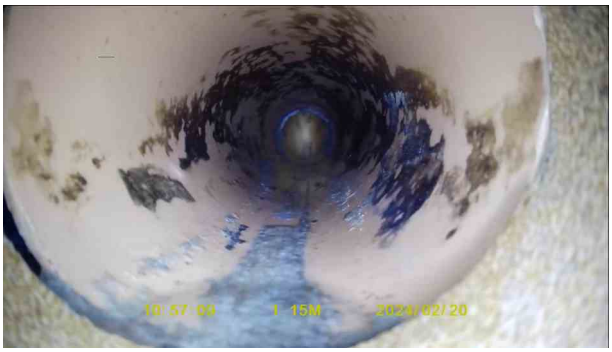
Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
43	Upstream	BRANCH CX		

7076801a-6240-41d9-a416-603246e932b2.jpg, 00:00:10, 0.09 m
Joint displaced, medium

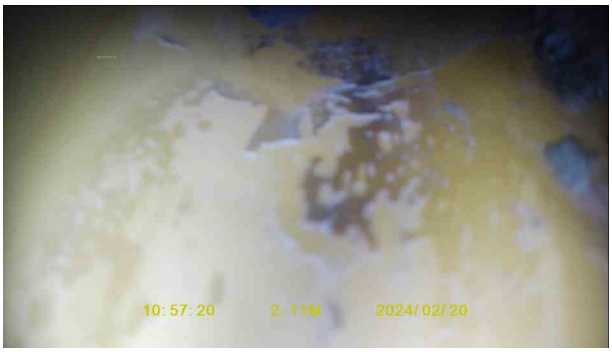
4bff65e0-e500-4552-8682-5a6f3d023944.jpg, 00:00:14, 0.19 m
Attached deposits, encrustation at joint from 4 o'clock to 8

205e2d51-6137-455f-aa65-6f6f489f32b0.jpg, 00:00:18, 0.28 m
Joint displaced, medium

c49eab87-a58d-4fd3-9800-c705466255a4.jpg, 00:00:26, 0.76 m
Attached deposits, encrustation at joint from 4 o'clock to 7



e1ffee4e-ddbc-41e9-ba9a-edbfcf9cc6e2.jpg, 00:00:34, 1.15 m
Joint displaced, medium



c6a34fc5-3739-4efc-8d4c-76213357c26a.jpg, 00:00:45, 2.11 m
Finish node, manhole, reference: Branch C, Rest bend

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
44	1	07/03/24	10:35	Not Specified	Not Specified	Not Specified	BRANCH DX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

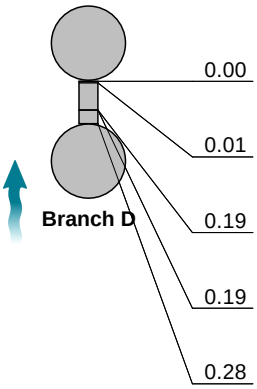
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH D
Road:	Swains Lane	**Inspected Length:**	0.28 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.28 m	**Downstream Node:**	MH10
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.800 m

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend LSR

Scale: 1:50

Depth: 0.80 m
MH10



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:22		
0.01	LU	Line deviates up	00:00:11		
0.19	JDM	Joint displaced, medium	00:00:16		1 / 3
0.19	MCPF	Pipe material changes to pitch fibre at this point	00:00:19		
0.28	MHF	Finish node, manhole, reference: Branch D: Vent pipe	00:00:19		

Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
1	1.0	3.6	1.0	1.0	1	2.0	7.1	2.0	5.0

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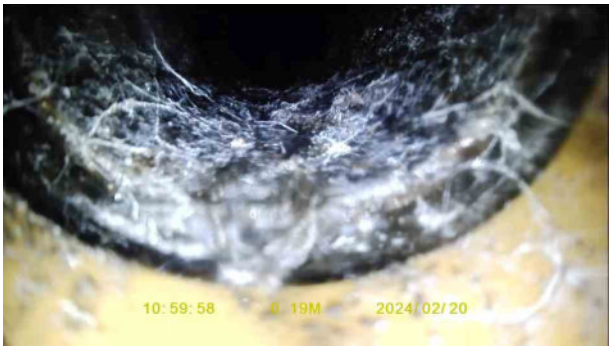
Section Pictures - 07/03/2024 - Branch DX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
44	Upstream	BRANCH DX		



fe861bff-7a5c-4310-831e-8180078c008e.jpg, 00:00:16, 0.19 m
Joint displaced, medium

e4e9475f-69f9-45d8-8f38-04630cbdbdc6.jpg, 00:00:19, 0.28 m
Finish node, manhole, reference: Branch D, Vent pipe

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
45	1	07/03/24	10:36	Not Specified	Not Specified	Not Specified	MH10X

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

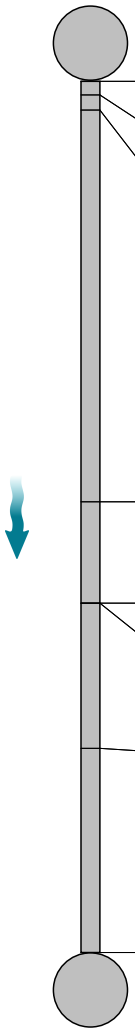
Town or Village:	Highgate	**Inspection Direction:**	Downstream	**Upstream Node:**	MH10
Road:	Swains Lane	**Inspected Length:**	5.76 m	**Upstream Pipe Depth:**	0.800 m
Location:		**Total Length:**	5.76 m	**Downstream Node:**	DOWNSTREAM
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	

Use:	Combined	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Vitrified clay
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ/LSR

Scale: 1:50

Depth: 0.80 m
MH10



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:14		
0.09	JN	Junction at 6 o'clock, 100mm dia: Backdrop	00:00:08		
0.19	SC	Pipe size changes, new size(s), 150mm high	00:00:17		
2.78	JDM	Joint displaced, medium	00:00:39		1 / 3
3.45	JDM	Joint displaced, medium	00:00:46		1 / 3
3.45	LL	Line deviates left	00:00:53		
4.41	DEE	Attached deposits, encrustation from 5 o'clock to 7 o'clock, 20% cross-sectional area loss	00:01:02		3
5.76	MHF	Finish node, manhole, reference: Main line	00:01:32		

Downstream
Depth: m

STR No. Def	STR Peak	STR Mean	STR Total	STR Grade	SER No. Def	SER Peak	SER Mean	SER Total	SER Grade
2	1.0	0.3	2.0	1.0	3	2.0	1.0	6.0	3.0

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Section Pictures - 07/03/2024 - MH10X

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
45	Downstream	MH10X		

11f4fc9c-ba19-4aad-aca7-5fdd34d41401.jpg, 00:00:08, 0.09 m
Junction at 6 o'clock, 100mm dia, Backdrop

f655621c-2490-4b57-b90c-2478f909dfd8.jpg, 00:00:39, 2.78 m
Joint displaced, medium

81136733-b89d-435f-a60c-a6bc873af195.jpg, 00:00:46, 3.45 m
Joint displaced, medium

46a8db89-2395-4346-b1ab-494535b5cd78.jpg, 00:01:02, 4.41 m
Attached deposits, encrustation from 5 o'clock to 7 o'clock,

e878b872-6e34-410d-afb7-adb481f5e729.jpg, 00:01:32, 5.76 m
Finish node, manhole, reference: Main line

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WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
46	1	07/03/24	10:37	Not Specified	Not Specified	Not Specified	BRANCH AX

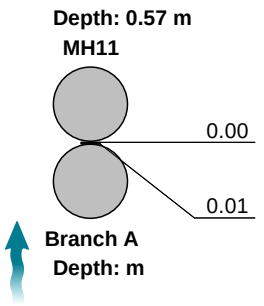
Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH A
Road:	Swains Lane	**Inspected Length:**	0.01 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	0.01 m	**Downstream Node:**	MH11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.570 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: None

Scale: 1:50



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:12		
0.01	MHF	Finish node, manhole, reference: Capped	00:00:39		

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

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Section Pictures - 07/03/2024 - Branch AX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
46	Upstream	BRANCH AX		

fcb91452-5e55-4616-9fb5-a1479d9cbaa1.jpg, 00:00:39, 0.01 m
Finish node, manhole, reference: Capped

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Completed section inspection

WEB PROJECT CLICK TO OPEN THIS SECTION

Item No.	Insp. No.	Date	Time	Client`s Job Ref	Weather	Pre Cleaned	PLR
47	1	07/03/24	10:48	Not Specified	Not Specified	Not Specified	BRANCH BX

Operator	Vehicle	Camera	Preset Length	Legal Status	Alternative ID
Tom Holman	Not Specified	Not Specified	Not Specified	Not Specified	Not Specified

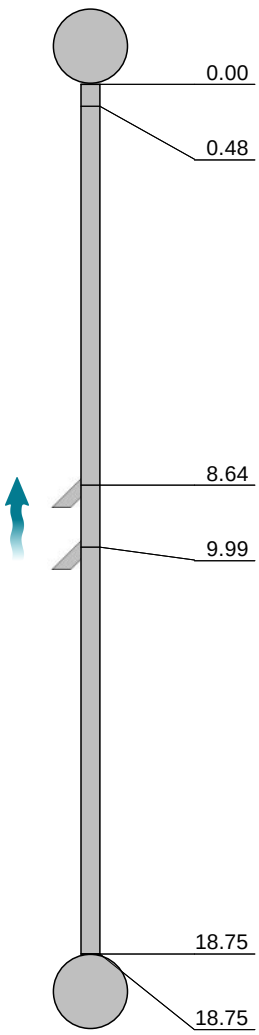
Town or Village:	Highgate	**Inspection Direction:**	Upstream	**Upstream Node:**	BRANCH B
Road:	Swains Lane	**Inspected Length:**	18.75 m	**Upstream Pipe Depth:**	
Location:		**Total Length:**	18.75 m	**Downstream Node:**	MH11
Surface Type:		**Joint Length:**		**Downstream Pipe Depth:**	0.570 m

Use:	Surface water	**Pipe Shape:**	Circular
Type of Pipe:		**Dia/Height:**	100 mm
Flow Control:		**Material:**	Polyvinyl chloride
Year Constructed:	Not Specified	**Lining Type:**	No Lining
Inspection Purpose:		**Lining Material:**	No Lining

Comments:
Recommendations: Recommend HPWJ

Scale: 1:163

Depth: 0.57 m
MH11



Position [m]	Code	Observation	MPEG	Photo	Grade
0.00	WL	Water level, 0% of the vertical dimension	00:00:40		
0.48	LR	Line deviates right	00:00:17		
8.64	JN	Junction at 3 o'clock, 100mm dia	00:01:28		
9.99	JN	Junction at 3 o'clock, 100mm dia	00:01:41		
18.75	DES	Settled deposits, fine, 45% cross-sectional area loss: Aco	00:02:46		4
18.75	MHF	Finish node, manhole, reference: Branch B: Aco	00:02:46		

Branch B
Depth: m

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	5.0	0.3	5.0	4.0

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Section Pictures - 07/03/2024 - Branch BX

Item No.	Inspection Direction	PLR	Client`s Job Ref	Contractor`s Job Ref
47	Upstream	BRANCH BX		

1cff4279-29bc-41d9-a284-c0b1df4fa83c.jpg, 00:01:28, 8.64 m
Junction at 3 o'clock, 100mm dia

f28f0d2e-5a81-457a-95b7-6385d09598fa.jpg, 00:01:41, 9.99 m
Junction at 3 o'clock, 100mm dia

863abe23-34c2-4e95-8c46-44d1baf7e004.jpg, 00:02:46, 18.75 m
Settled deposits, fine, 45% cross-sectional area loss, Aco

22bee4a0-d2d3-4263-8716-67b4931eaa3c.jpg, 00:02:46, 18.75 m
Finish node, manhole, reference: Branch B, Aco