

UKDN WATERFLOW

40433

06 December 2012



CCTV SURVEY REPORT

GRADE 3,4 & 5 Summary

STRUCTURAL DEFECTS

Structural defects			
Section	PLR	Grade	Fault description
81	BR 2 X	3	Multiple defects at 2.4m
85	MH 28 X	4	Multiple defects at 1.3m
88	BR 3 X	4	Multiple Fractures from 12 to 12 o'clock

Grade 3; Best practice suggests consideration be given to repair in the medium term

Grade 4; Best practice suggests consideration be given to a repair to avoid potential collapse

Grade 5; Best practice suggests this pipe is at risk of collapse at any time; urgent consideration should be given to a repair to avoid collapse

SERVICE / OPERATIONAL DEFECTS

Service defects			
Section	PLR	Grade	Fault description
1	BR 1 X	3	Multiple defects at 3.3m
5	BR 1 X	5	Multiple defects at 0.4m
6	BR 2 X	5	Multiple defects at 0.4m
7	BR 3 X	5	Multiple defects at 0.4m
8	BR 4 X	5	Multiple defects at 0.4m
9	MH 2 X	3	Debris, 5 % cross-sectional area loss
10	MH 3 X	3	Debris, 10 % cross-sectional area loss
11	MH 4 X	3	Debris, 10 % cross-sectional area loss
14	MH 8 X	3	Debris, 5 % cross-sectional area loss
16	BR 1 X	3	Multiple defects at 10.5m
17	BR 2 X	3	Debris grease, from 04 to 08 o'clock, 5 % cross-sectional area loss
22	BR 3 X	3	Multiple defects at 4.8m
24	BR 5 X	3	Mass Roots 10 % cross-sectional area loss
27	MH 15 X	3	Debris, 5 % cross-sectional area loss
32	BR 1 X	3	Mass Roots 10 % cross-sectional area loss
38	BR 1 X	4	Multiple defects at 1.1m
39	BR 2 X	3	Debris, 10 % cross-sectional area loss
43	BR 3 X	4	Debris, 20 % cross-sectional area loss
44	BR 4 X	3	Multiple defects at 3.1m
46	BR 2 X	3	Multiple defects at 4.6m
49	MH 22 X	3	Multiple defects at 3.2m
55	MH 27 X	4	Debris, 20 % cross-sectional area loss
57	BR 2 X	3	Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss
60	BR 2 X	3	Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss
63	BR 2 X	3	Multiple defects at 5.1m
67	BR 2 X	3	Multiple defects at 5.0m
70	BR 2 X	3	Multiple defects at 4.5m
73	BR 2 X	4	Debris grease, from 04 to 08 o'clock, 20 % cross-sectional area loss
74	BR 3 X	3	Debris grease, from 9 to 3 o'clock, 5% cross-sectional area loss
77	BR 3 X	3	Multiple defects at 4.6m

79	BR 5 X	4	Multiple defects at 1.3m
80	BR 1 X	4	Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss
82	BR 3 X	5	Multiple defects at 4.4m
83	BR 4 X	5	Mass Roots 20 % cross-sectional area loss
84	MH 27 X	3	Debris, 5 % cross-sectional area loss
86	BR 1 X	3	Multiple defects at 4.5m
89	MH 29 X	4	Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss

Grade 3; Best practice suggests consideration be given to maintenance activities in the medium term

Grade 4; Best practice suggests consideration be given to maintenance activity to avoid potential blockage

Grade 5; Best practice suggests this pipe is at immediate risk of backing up / causing flooding

Abandoned Surveys

Camera no access		
Section	PLR	Fault description
5	BR 1 X	Heavy Scale from 03 to 09 o'clock, 50% cross-sectional area loss
6	BR 2 X	Heavy Scale from 03 to 09 o'clock, 50% cross-sectional area loss
7	BR 3 X	Debris, 40 % cross-sectional area loss
8	BR 4 X	Heavy Scale from 03 to 09 o'clock, 40% cross-sectional area loss
38	BR 1 X	Debris, 70 % cross-sectional area loss
43	BR 3 X	Debris, 30 % cross-sectional area loss
55	MH 27 X	Debris, 20 % cross-sectional area loss
72	BR 1 X	Joint displaced. Large
79	BR 5 X	Debris, 20 % cross-sectional area loss
80	BR 1 X	General observation
89	MH 29 X	Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss

Information

These summaries are based on the SRM grading from the WRC

Place :



UKDN WATERFLOW
 12-16 DAVID ROAD
 POYLE TRADING ESTATE, COLNBROOK
 Tel: 01753 810 999
 Fax: 01753 681 442
 Email:

ΣØ / Main sections

 Project name :
40433

Contract number :

Contact :

 Date :
19/11/2012

No.	U/S MH	D/S MH	Date	Road	Tape No.	Material	m	(m)
1	BR 1	MH 1	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.30	
2	BR 2	MH 1	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.70	
3	MAIN RUN	MH 1	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.60	
4	MH 1	MH 2	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.60	5.60
5	BR 1	MH 3	19/11/2012	LANCASTER ROAD	1	Vitrified clay	1.00	
6	BR 2	MH 3	19/11/2012	LANCASTER ROAD	1	Vitrified clay	1.00	
7	BR 3	MH 3	19/11/2012	LANCASTER ROAD	1	Vitrified clay	1.00	
8	BR 4	MH 3	19/11/2012	LANCASTER ROAD	1	Vitrified clay	1.00	
9	MH 2	MH 3	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.00	
10	MH 3	MH 4	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.90	
11	MH 4	MH 5	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.50	
12	MH 5	MH 7	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.70	
13	MH 7	MH 8	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.40	
16	BR 1	MH 10	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.80	
17	BR 2	MH 10	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.30	
18	BR 3	MH 10	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.40	
21	BR 2	MH 12	19/11/2012	LANCASTER ROAD	1	Vitrified clay	11.30	
22	BR 3	MH 12	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.80	4.80
23	BR 4	MH 12	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.50	
24	BR 5	MH 12	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.80	
32	BR 1	MH 13	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.90	
33	BR 2	MH 13	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.40	
34	BR 3	MH 13	19/11/2012	LANCASTER ROAD	1	Vitrified clay	9.30	
35	BR 1	MH 9	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.20	
36	BR 2	MH 9	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.80	
37	BR 3	MH 9	19/11/2012	LANCASTER ROAD	1	Vitrified clay	9.70	
38	BR 1	MH 15	19/11/2012	LANCASTER ROAD	1	Vitrified clay	2.00	
39	BR 2	MH 15	19/11/2012	LANCASTER ROAD	1	Vitrified clay	9.80	
40	BR 3	MH 15	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.40	
41	BR 1	MH 16	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.70	
42	BR 2	MH 16	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.10	
43	BR 3	MH 16	19/11/2012	LANCASTER ROAD	1	Vitrified clay	8.00	
44	BR 4	MH 16	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.10	
45	BR 1	MH 20	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.30	
46	BR 2	MH 20	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.60	
47	BR 3	MH 20	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.80	
48	BR 4	MH 20	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.10	
49	MH 22	MH 21	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.20	
50	MH 23	MH 22	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.40	
56	BR 1	MH 23	19/11/2012	LANCASTER ROAD	1	Vitrified clay	7.60	
57	BR 2	MH 23	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.10	
58	MAIN RUN	MH 23	19/11/2012	LANCASTER ROAD	1	Vitrified clay	11.60	
59	BR 1	MH 22	19/11/2012	LANCASTER ROAD	1	Vitrified clay	11.00	
60	BR 2	MH 22	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.10	
61	BR 3	MH 22	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.80	
62	BR 1	MH 21	19/11/2012	LANCASTER ROAD	1	Vitrified clay	7.10	
63	BR 2	MH 21	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.10	
64	BR 3	MH 21	19/11/2012	LANCASTER ROAD	1	Vitrified clay	11.00	
65	BR 4	MH 21	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.70	3.70
66	BR 1	MH 24	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.50	
67	BR 2	MH 24	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.00	5.00
68	BR 3	MH 24	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.90	
69	BR 1	MH 25	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.40	
70	BR 2	MH 25	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.50	
71	BR 3	MH 25	19/11/2012	LANCASTER ROAD	1	Vitrified clay	7.20	

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No.	U/S MH	D/S MH	Date	Road	Tape No.	Material	m	(m)
72	BR 1	MH 26	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.00	
73	BR 2	MH 26	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.60	
74	BR 3	MH 26	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.80	10.80
75	BR 1	MH 27	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.00	
76	BR 2	MH 27	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.20	
77	BR 3	MH 27	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.60	
78	BR 4	MH 27	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.00	
80	BR 1	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.00	3.80
81	BR 2	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.60	
82	BR 3	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.40	
83	BR 4	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	10.60	
86	BR 1	MH 29	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.50	
87	BR 2	MH 29	19/11/2012	LANCASTER ROAD	1	Vitrified clay	11.10	
88	BR 3	MH 29	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.00	
89	MH 29	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.00	

Pipe size: CIRCULAR 100 = 437.4 m (354 m)

No.	U/S MH	D/S MH	Date	Road	Tape No.	Material	m	(m)
14	MH 8	MH 9	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.80	4.80
15	MH 9	MH 10	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.40	
19	MH 10	MH 11	19/11/2012	LANCASTER ROAD	1	Vitrified clay	6.30	
20	MH 11	MH 12	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.10	
25	MH 12	MH 14	19/11/2012	LANCASTER ROAD	1	Vitrified clay	7.10	7.10
26	MH 14	MH 15	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.10	
27	MH 15	MH 16	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.20	
28	MH 16	MH 17	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.80	
29	MH 17	MH 18	19/11/2012	LANCASTER ROAD	1	Vitrified clay	2.10	2.10
30	MH 18	MH 19	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.50	4.50
31	MH 19	MH 20	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.60	
51	MH 20	MH 24	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.30	
52	MH 24	MH 25	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.60	
53	MH 25	MH 26	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.50	
54	MH 26	MH 27	19/11/2012	LANCASTER ROAD	1	Vitrified clay	4.70	
55	MH 27	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	5.00	
79	BR 5	MH 27	19/11/2012	LANCASTER ROAD	1	Vitrified clay	2.00	
84	MH 27	MH 28	19/11/2012	LANCASTER ROAD	1	Vitrified clay	3.00	
85	MH 28	MAIN RUN	19/11/2012	LANCASTER ROAD	1	Vitrified clay	15.80	15.80

Pipe size: CIRCULAR 150 = 91.9 m (106 m)

All sections = 529.3 m (460 m)



Service / Operational Defects (SRM 4)

Project name :
40433

Contract Number :

Contact :

Date :
19/11/2012

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Year laid	Peak Score	Grade	Mean Score	Total Score
1	BR 1X	U	C	C 100	19/11/2012	VC	3.30		Z	4	3	2.36	7.8
2	BR 2X	U	C	C 100	19/11/2012	VC	4.70		Z	0	1	0	0
3	MAIN RUNX	U	C	C 100	19/11/2012	VC	10.60		Z	0	1	0	0
4	MH 1X	D	C	C 100	19/11/2012	VC	5.60	5.60	Z	0	1	0	0
5	BR 1X	U	C	C 100	19/11/2012	VC	1.00		Z	5	5	5	5
6	BR 2X	U	C	C 100	19/11/2012	VC	1.00		Z	5	5	5	5
7	BR 3X	U	C	C 100	19/11/2012	VC	1.00		Z	5	5	5	5
8	BR 4X	U	S	C 100	19/11/2012	VC	1.00		Z	5	5	5	5
9	MH 2X	U	C	C 100	19/11/2012	VC	4.00		Z	2	3	0.5	2
10	MH 3X	D	C	C 100	19/11/2012	VC	5.90		Z	2	3	0.34	2
11	MH 4X	D	C	C 100	19/11/2012	VC	4.50		Z	2	3	0.44	2
12	MH 5X	D	C	C 100	19/11/2012	VC	5.70		Z	0	1	0	0
13	MH 7X	D	C	C 100	19/11/2012	VC	3.40		Z	0	1	0	0
14	MH 8X	D	C	C 150	19/11/2012	VC	4.80	4.80	Z	2	3	0.42	2
15	MH 9X	D	C	C 150	19/11/2012	VC	3.40		Z	0	1	0	0
16	BR 1X	U	C	C 100	19/11/2012	VC	10.80		Z	2	3	0.19	2
17	BR 2X	U	C	C 100	19/11/2012	VC	4.30		Z	2	3	0.47	2
18	BR 3X	U	C	C 100	19/11/2012	VC	6.40		Z	0	1	0	0
19	MH 10X	D	C	C 150	19/11/2012	VC	6.30		Z	0	1	0	0
20	MH 11X	D	C	C 150	19/11/2012	VC	5.10		Z	0	1	0	0
21	BR 2X	U	C	C 100	19/11/2012	VC	11.30		Z	0	1	0	0
22	BR 3X	U	C	C 100	19/11/2012	VC	4.80	4.80	Z	2	3	1.83	8.8
23	BR 4X	U	C	C 100	19/11/2012	VC	5.50		Z	0	1	0	0
24	BR 5X	U	C	C 100	19/11/2012	VC	4.80		Z	4	3	0.83	4
25	MH 12X	D	C	C 150	19/11/2012	VC	7.10	7.10	Z	0	1	0	0
26	MH 14X	D	C	C 150	19/11/2012	VC	4.10		Z	0	1	0	0
27	MH 15X	D	C	C 150	19/11/2012	VC	3.20		Z	2	3	0.62	2
28	MH 16X	D	C	C 150	19/11/2012	VC	3.80		Z	0	1	0	0
29	MH 17X	D	C	C 150	19/11/2012	VC	2.10	2.10	Z	0	1	0	0
30	MH 18X	D	C	C 150	19/11/2012	VC	4.50	4.50	Z	0	1	0	0
31	MH 19X	D	C	C 150	19/11/2012	VC	4.60		Z	0	1	0	0
32	BR 1X	U	C	C 100	19/11/2012	VC	5.90		Z	4	3	0.68	4
33	BR 2X	U	C	C 100	19/11/2012	VC	3.40		Z	0	1	0	0
34	BR 3X	U	C	C 100	19/11/2012	VC	9.30		Z	0	1	0	0
35	BR 1X	U	C	C 100	19/11/2012	VC	6.20		Z	0	1	0	0
36	BR 2X	U	C	C 100	19/11/2012	VC	3.80		Z	0	1	0	0
37	BR 3X	U	C	C 100	19/11/2012	VC	9.70		Z	0	1	0	0
38	BR 1X	U	C	C 100	19/11/2012	VC	2.00		Z	8	4	4	8
39	BR 2X	U	C	C 100	19/11/2012	VC	9.80		Z	2	3	0.41	4
40	BR 3X	U	C	C 100	19/11/2012	VC	10.40		Z	0	1	0	0
41	BR 1X	U	C	C 100	19/11/2012	VC	3.70		Z	0	1	0	0
42	BR 2X	U	C	C 100	19/11/2012	VC	10.10		Z	0	1	0	0
43	BR 3X	U	C	C 100	19/11/2012	VC	8.00		Z	5	4	1.5	12
44	BR 4X	U	C	C 100	19/11/2012	VC	3.10		Z	2	3	1.74	5.4
45	BR 1X	U	C	C 100	19/11/2012	VC	10.30		Z	0	1	0	0
46	BR 2X	U	C	C 100	19/11/2012	VC	4.60		Z	2	3	1.83	8.4
47	BR 3X	U	C	C 100	19/11/2012	VC	5.80		Z	0	1	0	0
48	BR 4X	U	C	C 100	19/11/2012	VC	6.10		Z	0	1	0	0
49	MH 22X	U	C	C 100	19/11/2012	VC	3.20		Z	2	3	1.75	5.6
50	MH 23X	U	C	C 100	19/11/2012	VC	4.40		Z	0	1	0	0
51	MH 20X	D	C	C 150	19/11/2012	VC	3.30		Z	0	1	0	0
52	MH 24X	D	C	C 150	19/11/2012	VC	5.60		Z	0	1	0	0
53	MH 25X	D	C	C 150	19/11/2012	VC	3.50		Z	0	1	0	0
54	MH 26X	D	C	C 150	19/11/2012	VC	4.70		Z	0	1	0	0
55	MH 27X	D	C	C 150	19/11/2012	VC	5.00		Z	5	4	1	5



Service / Operational Defects (SRM 4)

Project name :
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No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Year laid	Peak Score	Grade	Mean Score	Total Score
56	BR 1X	U	C	C 100	19/11/2012	VC	7.60		Z	0	1	0	0
57	BR 2X	U	C	C 100	19/11/2012	VC	5.10		Z	2	3	0.39	2
58	MAIN RUNX	U	C	C 100	19/11/2012	VC	11.60		Z	0	1	0	0
59	BR 1X	U	C	C 100	19/11/2012	VC	11.00		Z	0	1	0	0
60	BR 2X	U	C	C 100	19/11/2012	VC	5.10		Z	2	3	0.39	2
61	BR 3X	U	C	C 100	19/11/2012	VC	6.80		Z	0	1	0	0
62	BR 1X	U	C	C 100	19/11/2012	VC	7.10		Z	0	1	0	0
63	BR 2X	U	C	C 100	19/11/2012	VC	5.10		Z	2	3	1.84	9.4
64	BR 3X	U	C	C 100	19/11/2012	VC	11.00		Z	0	1	0	0
65	BR 4X	U	C	C 100	19/11/2012	VC	3.70	3.70	Z	0	1	0	0
66	BR 1X	U	C	C 100	19/11/2012	VC	6.50		Z	1	2	0.15	1
67	BR 2X	U	C	C 100	19/11/2012	VC	5.00	5.00	Z	2	3	1.4	7
68	BR 3X	U	C	C 100	19/11/2012	VC	10.90		Z	0	1	0	0
69	BR 1X	U	C	C 100	19/11/2012	VC	10.40		Z	0	1	0	0
70	BR 2X	U	C	C 100	19/11/2012	VC	4.50		Z	4	3	2	9
71	BR 3X	U	C	C 100	19/11/2012	VC	7.20		Z	1	2	0.14	1
72	BR 1X	U	C	C 100	19/11/2012	VC	5.00		Z	0	1	0	0
73	BR 2X	U	C	C 100	19/11/2012	VC	4.60		Z	7	4	2.65	12.2
74	BR 3X	U	C	C 100	19/11/2012	VC	10.80	10.80	Z	2	3	0.19	2
75	BR 1X	U	C	C 100	19/11/2012	VC	4.00		Z	0	1	0	0
76	BR 2X	U	C	C 100	19/11/2012	VC	10.20		Z	0	1	0	0
77	BR 3X	U	C	C 100	19/11/2012	VC	4.60		Z	2	3	1.83	8.4
78	BR 4X	U	C	C 100	19/11/2012	VC	6.00		Z	0	1	0	0
79	BR 5X	U	C	C 150	19/11/2012	VC	2.00		Z	5	4	2.5	5
80	BR 1X	U	C	C 100	19/11/2012	VC	6.00	3.80	Z	5	4	1.17	7
81	BR 2X	U	C	C 100	19/11/2012	VC	6.60		Z	2	3	0.3	2
82	BR 3X	U	C	C 100	19/11/2012	VC	4.40		Z	12	5	4.09	18
83	BR 4X	U	C	C 100	19/11/2012	VC	10.60		Z	10	5	0.94	10
84	MH 27X	U	C	C 150	19/11/2012	VC	3.00		Z	2	3	0.67	2
85	MH 28X	D	C	C 150	19/11/2012	VC	15.80	15.80	Z	1	2	0.96	15.2
86	BR 1X	U	C	C 100	19/11/2012	VC	4.50		Z	2	3	1.82	8.2
87	BR 2X	U	C	C 100	19/11/2012	VC	11.10		Z	1	2	0.09	1
88	BR 3X	U	C	C 100	19/11/2012	VC	5.00		Z	0	1	0	0
89	MH 29X	D	C	C 100	19/11/2012	VC	6.00		Z	5	4	0.83	5



Structural Defects (SRM 4)

Project name :
40433

Contract Number :

Contact :

Date :
19/11/2012

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Year laid	Peak Score	Grade	Mean Score	Total Score
1	BR 1X	U	C	C 100	19/11/2012	VC	3.30		Z	0	1	0	0
2	BR 2X	U	C	C 100	19/11/2012	VC	4.70		Z	10	2	2.13	10
3	MAIN RUNX	U	C	C 100	19/11/2012	VC	10.60		Z	0	1	0	0
4	MH 1X	D	C	C 100	19/11/2012	VC	5.60	5.60	Z	0	1	0	0
5	BR 1X	U	C	C 100	19/11/2012	VC	1.00		Z	0	1	0	0
6	BR 2X	U	C	C 100	19/11/2012	VC	1.00		Z	0	1	0	0
7	BR 3X	U	C	C 100	19/11/2012	VC	1.00		Z	0	1	0	0
8	BR 4X	U	S	C 100	19/11/2012	VC	1.00		Z	0	1	0	0
9	MH 2X	U	C	C 100	19/11/2012	VC	4.00		Z	0	1	0	0
10	MH 3X	D	C	C 100	19/11/2012	VC	5.90		Z	0	1	0	0
11	MH 4X	D	C	C 100	19/11/2012	VC	4.50		Z	0	1	0	0
12	MH 5X	D	C	C 100	19/11/2012	VC	5.70		Z	0	1	0	0
13	MH 7X	D	C	C 100	19/11/2012	VC	3.40		Z	0	1	0	0
14	MH 8X	D	C	C 150	19/11/2012	VC	4.80	4.80	Z	0	1	0	0
15	MH 9X	D	C	C 150	19/11/2012	VC	3.40		Z	0	1	0	0
16	BR 1X	U	C	C 100	19/11/2012	VC	10.80		Z	0	1	0	0
17	BR 2X	U	C	C 100	19/11/2012	VC	4.30		Z	0	1	0	0
18	BR 3X	U	C	C 100	19/11/2012	VC	6.40		Z	0	1	0	0
19	MH 10X	D	C	C 150	19/11/2012	VC	6.30		Z	0	1	0	0
20	MH 11X	D	C	C 150	19/11/2012	VC	5.10		Z	0	1	0	0
21	BR 2X	U	C	C 100	19/11/2012	VC	11.30		Z	0	1	0	0
22	BR 3X	U	C	C 100	19/11/2012	VC	4.80	4.80	Z	0	1	0	0
23	BR 4X	U	C	C 100	19/11/2012	VC	5.50		Z	10	2	1.82	10
24	BR 5X	U	C	C 100	19/11/2012	VC	4.80		Z	0	1	0	0
25	MH 12X	D	C	C 150	19/11/2012	VC	7.10	7.10	Z	0	1	0	0
26	MH 14X	D	C	C 150	19/11/2012	VC	4.10		Z	0	1	0	0
27	MH 15X	D	C	C 150	19/11/2012	VC	3.20		Z	0	1	0	0
28	MH 16X	D	C	C 150	19/11/2012	VC	3.80		Z	0	1	0	0
29	MH 17X	D	C	C 150	19/11/2012	VC	2.10	2.10	Z	0	1	0	0
30	MH 18X	D	C	C 150	19/11/2012	VC	4.50	4.50	Z	0	1	0	0
31	MH 19X	D	C	C 150	19/11/2012	VC	4.60		Z	0	1	0	0
32	BR 1X	U	C	C 100	19/11/2012	VC	5.90		Z	0	1	0	0
33	BR 2X	U	C	C 100	19/11/2012	VC	3.40		Z	0	1	0	0
34	BR 3X	U	C	C 100	19/11/2012	VC	9.30		Z	0	1	0	0
35	BR 1X	U	C	C 100	19/11/2012	VC	6.20		Z	0	1	0	0
36	BR 2X	U	C	C 100	19/11/2012	VC	3.80		Z	0	1	0	0
37	BR 3X	U	C	C 100	19/11/2012	VC	9.70		Z	0	1	0	0
38	BR 1X	U	C	C 100	19/11/2012	VC	2.00		Z	0	1	0	0
39	BR 2X	U	C	C 100	19/11/2012	VC	9.80		Z	0	1	0	0
40	BR 3X	U	C	C 100	19/11/2012	VC	10.40		Z	0	1	0	0
41	BR 1X	U	C	C 100	19/11/2012	VC	3.70		Z	0	1	0	0
42	BR 2X	U	C	C 100	19/11/2012	VC	10.10		Z	0	1	0	0
43	BR 3X	U	C	C 100	19/11/2012	VC	8.00		Z	0	1	0	0
44	BR 4X	U	C	C 100	19/11/2012	VC	3.10		Z	0	1	0	0
45	BR 1X	U	C	C 100	19/11/2012	VC	10.30		Z	0	1	0	0
46	BR 2X	U	C	C 100	19/11/2012	VC	4.60		Z	10	2	2.17	10
47	BR 3X	U	C	C 100	19/11/2012	VC	5.80		Z	0	1	0	0
48	BR 4X	U	C	C 100	19/11/2012	VC	6.10		Z	0	1	0	0
49	MH 22X	U	C	C 100	19/11/2012	VC	3.20		Z	0	1	0	0
50	MH 23X	U	C	C 100	19/11/2012	VC	4.40		Z	0	1	0	0
51	MH 20X	D	C	C 150	19/11/2012	VC	3.30		Z	0	1	0	0
52	MH 24X	D	C	C 150	19/11/2012	VC	5.60		Z	0	1	0	0
53	MH 25X	D	C	C 150	19/11/2012	VC	3.50		Z	0	1	0	0
54	MH 26X	D	C	C 150	19/11/2012	VC	4.70		Z	0	1	0	0
55	MH 27X	D	C	C 150	19/11/2012	VC	5.00		Z	0	1	0	0



Structural Defects (SRM 4)

Project name :
40433

Contract Number :

Contact :

Date :
19/11/2012

No.	PLR	Dir.	Use	Shape / Size	Date	Mat.	Total Length	Insp. Length	Year laid	Peak Score	Grade	Mean Score	Total Score
56	BR 1X	U	C	C 100	19/11/2012	VC	7.60		Z	0	1	0	0
57	BR 2X	U	C	C 100	19/11/2012	VC	5.10		Z	0	1	0	0
58	MAIN RUNX	U	C	C 100	19/11/2012	VC	11.60		Z	0	1	0	0
59	BR 1X	U	C	C 100	19/11/2012	VC	11.00		Z	0	1	0	0
60	BR 2X	U	C	C 100	19/11/2012	VC	5.10		Z	0	1	0	0
61	BR 3X	U	C	C 100	19/11/2012	VC	6.80		Z	0	1	0	0
62	BR 1X	U	C	C 100	19/11/2012	VC	7.10		Z	0	1	0	0
63	BR 2X	U	C	C 100	19/11/2012	VC	5.10		Z	0	1	0	0
64	BR 3X	U	C	C 100	19/11/2012	VC	11.00		Z	0	1	0	0
65	BR 4X	U	C	C 100	19/11/2012	VC	3.70	3.70	Z	2	1	0.54	2
66	BR 1X	U	C	C 100	19/11/2012	VC	6.50		Z	0	1	0	0
67	BR 2X	U	C	C 100	19/11/2012	VC	5.00	5.00	Z	0	1	0	0
68	BR 3X	U	C	C 100	19/11/2012	VC	10.90		Z	0	1	0	0
69	BR 1X	U	C	C 100	19/11/2012	VC	10.40		Z	0	1	0	0
70	BR 2X	U	C	C 100	19/11/2012	VC	4.50		Z	0	1	0	0
71	BR 3X	U	C	C 100	19/11/2012	VC	7.20		Z	10	2	2.78	20
72	BR 1X	U	C	C 100	19/11/2012	VC	5.00		Z	2	1	0.4	2
73	BR 2X	U	C	C 100	19/11/2012	VC	4.60		Z	0	1	0	0
74	BR 3X	U	C	C 100	19/11/2012	VC	10.80	10.80	Z	0	1	0	0
75	BR 1X	U	C	C 100	19/11/2012	VC	4.00		Z	0	1	0	0
76	BR 2X	U	C	C 100	19/11/2012	VC	10.20		Z	0	1	0	0
77	BR 3X	U	C	C 100	19/11/2012	VC	4.60		Z	0	1	0	0
78	BR 4X	U	C	C 100	19/11/2012	VC	6.00		Z	10	2	1.67	10
79	BR 5X	U	C	C 150	19/11/2012	VC	2.00		Z	0	1	0	0
80	BR 1X	U	C	C 100	19/11/2012	VC	6.00	3.80	Z	0	1	0	0
81	BR 2X	U	C	C 100	19/11/2012	VC	6.60		Z	40	3	7.58	50
82	BR 3X	U	C	C 100	19/11/2012	VC	4.40		Z	0	1	0	0
83	BR 4X	U	C	C 100	19/11/2012	VC	10.60		Z	0	1	0	0
84	MH 27X	U	C	C 150	19/11/2012	VC	3.00		Z	10	2	3.33	10
85	MH 28X	D	C	C 150	19/11/2012	VC	15.80	15.80	Z	80	4	5.06	80
86	BR 1X	U	C	C 100	19/11/2012	VC	4.50		Z	0	1	0	0
87	BR 2X	U	C	C 100	19/11/2012	VC	11.10		Z	10	2	0.9	10
88	BR 3X	U	C	C 100	19/11/2012	VC	5.00		Z	80	4	16	80
89	MH 29X	D	C	C 100	19/11/2012	VC	6.00		Z	0	1	0	0



Project-information

Project name :
40433

Contract Number :

Contact :

Date :
19/11/2012

Client: **ROBSON WALSH**
 Contact Name: **PHIL ROBSON**
 Department: **ROWAN HOUSE**
 Road: **9-31 VICTORIA ROAD**
 Town: **PARK ROYAL**
 County: **LONDON, NW10 6DP**
 Telephone: **020 8965 1432**
 Fax: **020 8965 1433**
 Mobile: **079 5717 6382**
 E-mail: **phil@robsonwalsh.co.uk**

Site: **ROBSON WALSH**
 Contact Name:
 Department:
 Road: **WESLEY SQUARE**
 Town: **LANCASTER ROAD**
 County: **LONDON, W11**
 Telephone:
 Fax:
 Mobile:
 E-mail:

Contractor **UKDN WATERFLOW**
 Contact Name:
 Department: **CCTV**
 Road: **12-16 DAVID ROAD**
 Town: **POYLE TRADING ESTATE, COLNBROOK**
 County: **SLOUGH, SL3 0DG**
 Telephone: **01753 810 999**
 Fax: **01753 681 442**
 Mobile:
 E-mail:



UKDN WATERFLOW
 12-16 DAVID ROAD
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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 1	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 1 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 1 D/S Depth : 01.27
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.27				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 1	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	1.30	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	2.50	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	3.30	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	3.30	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	3.30	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	3.30	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	2	4	2.36	7.8	3



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 2	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 1 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 1 D/S Depth : 01.27
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.70 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50 Depth: 01.27	Position	Code	Observation	Grade
	MH 1	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 1	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	3.60	CC	Circumferential Crack, from 12 to 12 o'clock	(Struct) 2
	4.40	LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
	4.70	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	4.70	GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	4.70	FH	Finish Survey	(Misc) 0
	BR 2			



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	2.13	10	2	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 2	PLR suffix : X
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Photo: 2_4a
3.6m, Circumferential Crack, from 12 to 12 o'clock



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 3	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 1 (U/S) MAIN RUN	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : U/S Depth : D/S MH : D/S Depth :	MAIN RUN MH 1 01.27
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.27	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 1	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 4	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 1 (D/S) MH 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 1 U/S Depth : D/S MH : MH 2 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 1	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	4.10	WL	Water level, 10 % height/diameter	(Serv) 0
	5.60	MH	Manhole Remarks: MH 2 (BURIED)	(Constr) 0
	5.60	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 5	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 3 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 3 D/S Depth : 01.20
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 1.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :	TOTAL LENGTH ASSUMED 1.0M
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1:50 Depth: 01.20	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 3	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		ESH	Heavy Scale from 03 to 09 o'clock, 50% cross-sectional area loss	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO HEAVY SCALE DEPOSITS	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	5	5	5	5

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 5	PLR suffix : X
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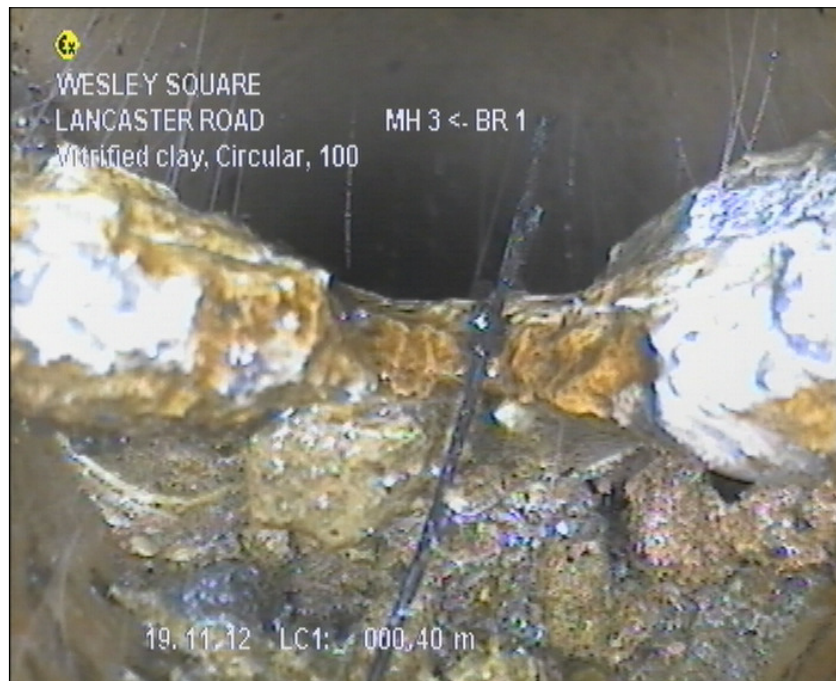


Photo: 35_4a

0.4m, Heavy Scale from 03 to 09 o'clock, 50% cross-sectional area loss



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 6	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 3 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 3 D/S Depth : 01.20
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 1.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :	TOTAL LENGTH ASSUMED 1.0M
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1:50 Depth: 01.20	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 3	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		ESH	Heavy Scale from 03 to 09 o'clock, 50% cross-sectional area loss	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO HEAVY SCALE DEPOSITS	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	5	5	5	5

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 6	PLR suffix : X
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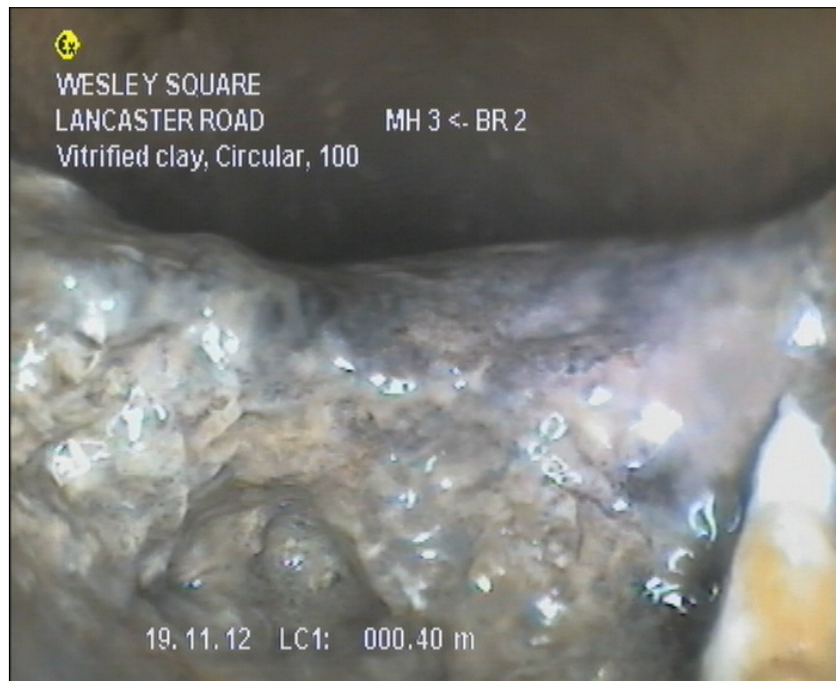


Photo: 40_4a

0.4m, Heavy Scale from 03 to 09 o'clock, 50% cross-sectional area loss



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 7	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 3 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 3 D/S Depth : 01.20
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 1.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :	TOTAL LENGTH ASSUMED 1.0M
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1:50 Depth: 01.20	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 3	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		DE	Debris, 40 % cross-sectional area loss	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO DEBRIS DEPOSITS	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	5	5	5	5

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 7	PLR suffix : X
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Photo: 7_4A
 0.4m, Debris, 40 % cross-sectional area loss



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 8	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 3 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 3 D/S Depth : 01.20
---	---	--	---

Use: Year laid : Purpose : Total length :	Surface water Z Sample survey to determin asset condition 1.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :	TOTAL LENGTH ASSUMED 1.0M
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1:50 Depth: 01.20	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 3	(Constr) 0
		WL	Water level, 0 % height/diameter	(Serv) 0
		ESH	Heavy Scale from 03 to 09 o'clock, 40% cross-sectional area loss Remarks: CONCRETE	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO HEAVY SCALE / CONCRETE DEPOSITS	(Misc) 0



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

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	1	1	5	5	5	5

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 8	PLR suffix : X
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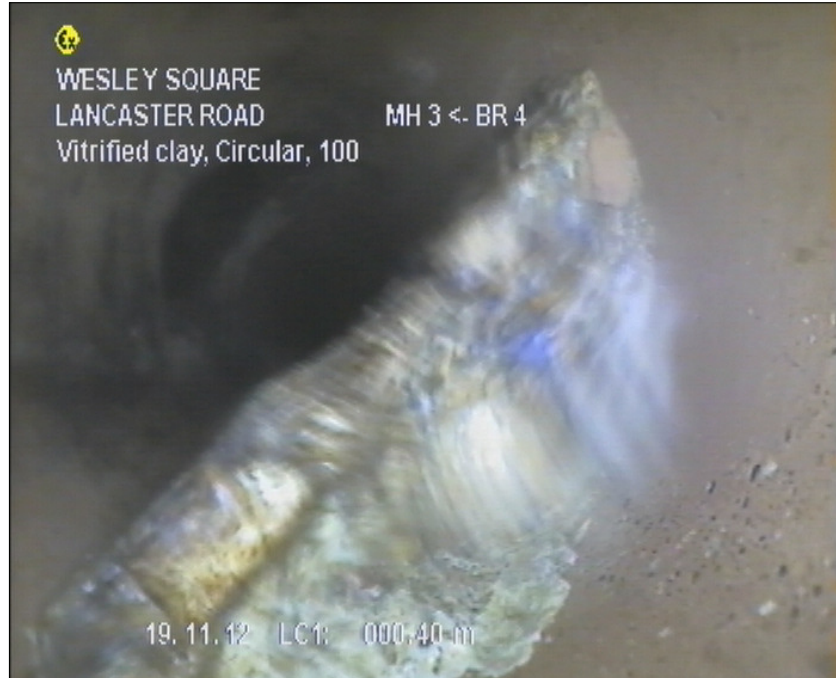


Photo: 50_4a

0.4m, Heavy Scale from 03 to 09 o'clock, 40% cross-sectional area loss
 Remarks: CONCRETE



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 9	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 3 (U/S) MH 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 2 U/S Depth : D/S MH : MH 3 D/S Depth : 01.20
---	---	--	---

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.20				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 3	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.30	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	4.00	MH	Manhole Remarks: MH2 (BURIED)	(Constr) 0
	4.00	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.5	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 10	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 3 (D/S) MH 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 3 U/S Depth : 01.20 D/S MH : MH 4 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.90 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.20	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 3	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		DE	Debris, 10 % cross-sectional area loss	(Serv) 3
		MH	Manhole Remarks: MH 4 (BURIED)	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.34	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 11	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 4 (D/S) MH 5	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 4 U/S Depth : D/S MH : MH 5 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	MH 4	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 4	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.30	DE	Debris, 10 % cross-sectional area loss	(Serv) 3
	4.50	MH	Manhole Remarks: MH 5 (BURIED)	(Constr) 0
	MH 5	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.44	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 12	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 5 (D/S) MH 7	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 5 U/S Depth : D/S MH : MH 7 D/S Depth :
---	---	---	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.70 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :	VIDEO TEXT SHOULD READ D.ST MH 7
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1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 5	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 7 (BURIED)	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 13	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 7 (D/S) MH 8	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 7 U/S Depth : D/S MH : MH 8 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 7	(Constr) 0
		WL	Water level, 10 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 8 (BURIED)	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 14	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 8 (D/S) MH 9	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 8 U/S Depth : D/S MH : MH 9 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 8	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.60	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	4.80	MH	Manhole Remarks: MH 9	(Constr) 0
	4.80	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.42	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 15	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 9 (D/S) MH 10	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 9 U/S Depth : D/S MH : MH 10 D/S Depth :
---	--	--	---

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 9	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	2.20	WL	Water level, 10 % height/diameter	(Serv) 0
	3.40	MH	Manhole Remarks: NH 10	(Constr) 0
	3.40	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 16	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 10 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 10 D/S Depth : 01.59
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.59	Position	Code	Observation	Grade
	MH 10	ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 10	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		ESM	Medium Scale from 04 to 08 o'clock, 15% cross-sectional area loss Remarks: AT BASE OF STACK	(Serv) 3
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	BR 1	FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.19	2	3

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 16	PLR suffix : X
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Photo: 16_4A

10.5m, Medium Scale from 04 to 08 o'clock, 15% cross-sectional area loss
 Remarks: AT BASE OF STACK



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 17	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 10 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 10 D/S Depth : 01.59
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50 Depth: 01.59	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
0.00		MH	Manhole Remarks: MH 10	(Constr) 0
0.00		WL	Water level, 5 % height/diameter	(Serv) 0
0.40		DEG	Debris grease, from 04 to 08 o'clock, 5 % cross-sectional area loss	(Serv) 3
3.00		LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
4.30		GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
4.30		GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
4.30		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.47	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 18	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 10 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 10 D/S Depth : 01.59
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.59	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 10	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 19	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 10 (D/S) MH 11	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 10 U/S Depth : 01.59 D/S MH : MH 11 D/S Depth :
---	---	--	---

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.59	Position	Code	Observation	Grade
0.00		ST	Start of Survey	(Misc) 0
0.00		MH	Manhole Remarks: MH 10	(Constr) 0
0.00		WL	Water level, 5 % height/diameter	(Serv) 0
6.30		MH	Manhole Remarks: MH 11 (BURIED)	(Constr) 0
6.30		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 20	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 11 (D/S) MH 12	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 11 U/S Depth : D/S MH : MH 12 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 11	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	5.10	MH	Manhole Remarks: MH 12	(Constr) 0
	5.10	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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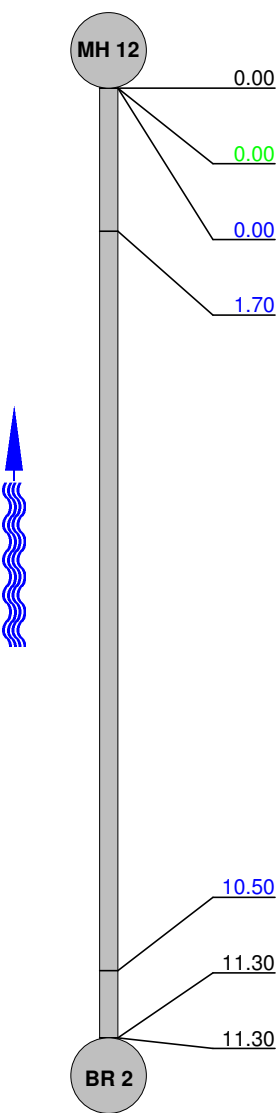
Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 21	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 12 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 12 D/S Depth : 01.46
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 11.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :

1:90 Depth: 01.46	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 12	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 22	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 12 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 12 D/S Depth : 01.46
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.46				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 12	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	3.50	JDM	Joint displaced, medium (between 1.0 and 1.5 times the pipe wall thickness)	(Struct) 1
	3.50	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.80	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.80	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.80	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.80	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	0	0	0	1	1	2	1.83	8.8	3



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 23	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 12 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 12 D/S Depth : 01.46
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50 Depth: 01.46	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 12	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	2.50	CC	Circumferential Crack, from 12 to 12 o'clock	(Struct) 2
	4.10	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	5.20	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	5.50	GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	5.50	FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.82	10	2	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 23	PLR suffix : X
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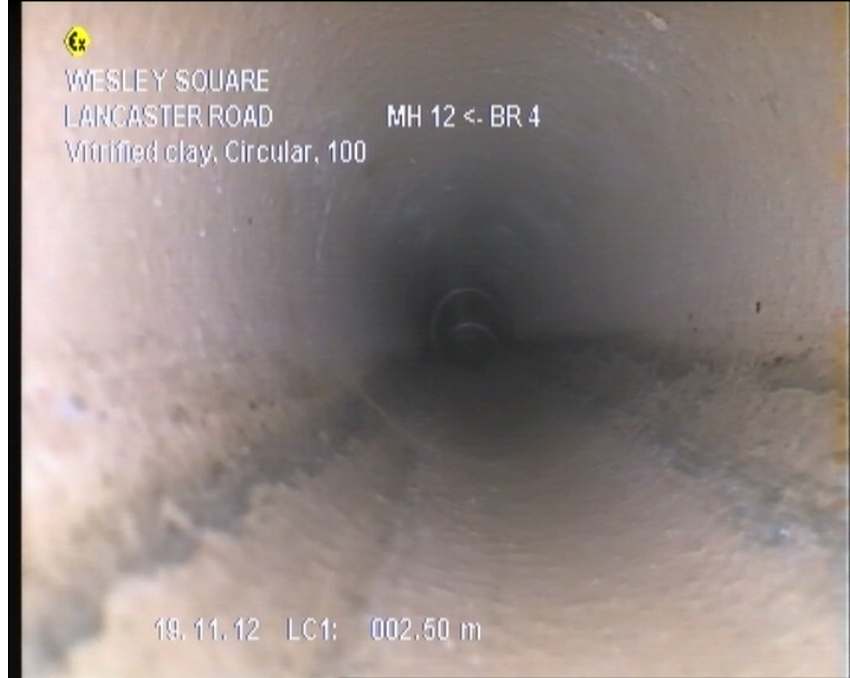


Photo: 23_5A
2.5m, Circumferential Crack, from 12 to 12 o'clock



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 24	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 12 (U/S) BR 5	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 5 U/S Depth : D/S MH : MH 12 D/S Depth : 01.46
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50 Depth: 01.46	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 12	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	2.20	RM	Mass Roots 10 % cross-sectional area loss	(Serv) 3
	4.80	MH	Manhole Remarks: MH 13	(Constr) 0
	4.80	FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	4	0.83	4	3

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 24	PLR suffix : X
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Photo: 159_4a
2.2m, Mass Roots 10 % cross-sectional area loss



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 25	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : WESLEY SQUARE	Location details:	U/S MH : MH 12
Road : LANCASTER ROAD	Catchment: -	U/S Depth : 01.46
Location: Gardens	Tape number : 1	D/S MH : MH 14
Inspection: MH 12 (D/S) MH 14	Pipe length :	D/S Depth :

Use: Combined	Pipe shape : Circular
Year laid : Z	Pipe size : 150 mm
Purpose : Sample survey to determin asset condition	Pipe width :
Total length : 7.10 m	Pipe Material : Vitrified clay

Comment :

1:60 Depth: 01.46	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
0.00		MH	Manhole Remarks: MH 12	(Constr) 0
0.00		WL	Water level, 5 % height/diameter	(Serv) 0
7.10		MH	Manhole Remarks: MH 14 (BURIED)	(Constr) 0
7.10		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 26	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 14 (D/S) MH 15	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 14 U/S Depth : D/S MH : MH 15 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 14	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	3.00	WL	Water level, 10 % height/diameter	(Serv) 0
	4.10	MH	Manhole Remarks: MH 15	(Constr) 0
	4.10	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 27	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 15 (D/S) MH 16	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 15 U/S Depth : D/S MH : MH 16 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.20 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 15	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	2.60	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	3.20	MH	Manhole Remarks: MH 16	(Constr) 0
	3.20	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.62	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 28	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 16 (D/S) MH 17	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 16 U/S Depth : D/S MH : MH 17 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 16	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	3.80	MH	Manhole Remarks: MH 17 (BURIED)	(Constr) 0
	3.80	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 29	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 17 (D/S) MH 18	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 17 U/S Depth : D/S MH : MH 18 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 2.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 17	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 18 (BURIED)	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 30	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 18 (D/S) MH 19	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 18 U/S Depth : D/S MH : MH 19 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 18	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.70	WL	Water level, 20 % height/diameter	(Serv) 0
	4.50	MH	Manhole Remarks: MH 19 (BURIED)	(Constr) 0
	4.50	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 31	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 19 (D/S) MH 20	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 19 U/S Depth : D/S MH : MH 20 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 19	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 20	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 32	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 13 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 13 D/S Depth : 00.94
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.90 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 00.94	Position	Code	Observation	Grade
		MH	Manhole Remarks: MH 13	(Constr) 0
		MH	Manhole Remarks: MH 13	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		RM	Mass Roots 10 % cross-sectional area loss	(Serv) 3
		LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
		LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	4	0.68	4	3

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 32	PLR suffix : X
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Photo: 32_4A
 0.4m, Mass Roots 10 % cross-sectional area loss



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 33	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 13 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 13 D/S Depth : 00.94
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 00.94				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 13	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	2.60	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	3.40	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	3.40	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	3.40	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 34	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 13 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 13 D/S Depth : 00.94
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 9.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:75	Position	Code	Observation	Grade
Depth: 00.94				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 13	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	9.10	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	9.30	GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	9.30	FH	Finish Survey	(Misc) 0

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 35	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 9 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 9 D/S Depth : 01.53
---	---	--	---

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.20 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.53	Position	Code	Observation	Grade
	MH 9	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 9	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	LU	Line of Sewer deviates up	(Serv) 0
	4.90	JDM	Joint displaced. Medium	(Struct) 1
	5.00	LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
	5.70	WL	Water level, 10 % height/diameter	(Serv) 0
	6.10	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	6.20	GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	6.20	FH	Finish Survey	(Misc) 0
BR 1				



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	0	0	0	1	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 35	PLR suffix : X
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Photo: 35_5A
4.9m, Joint displaced. Medium



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 36	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 9 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 9 D/S Depth : 01.53
---	---	---	---

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.53				
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 9	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
		GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
		GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 37	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 9 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 9 D/S Depth : 01.53
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 9.70 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.53	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
0.00	MH		Manhole Remarks: MH 9	(Constr) 0
0.00	WL		Water level, 5 % height/diameter	(Serv) 0
9.50	LU		Line of Sewer deviates up Remarks: SHARP	(Serv) 0
9.70	GO		General Observation Remarks: BASE OF STACK	(Misc) 0
9.70	FH		Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 38	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 15 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 15 D/S Depth : 01.35
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 2.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :	TOTAL LENGTH ASSUMED 2.0M
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1:50 Depth: 01.35	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 15	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		DE	Debris, 70 % cross-sectional area loss	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO DEBRIS DEPOSITS	(Misc) 0



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

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	1	1	8	4	8	4

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 38	PLR suffix : X
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Photo: 38_4A
1.1m, Debris, 70 % cross-sectional area loss



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 39	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 15 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 15 D/S Depth : 01.35
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 9.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90	Position	Code	Observation	Grade
Depth: 01.35				
0.00	ST	Start of Survey	(Misc) 0	
0.00	MH	Manhole Remarks: MH 15	(Constr) 0	
0.00	WL	Water level, 5 % height/diameter	(Serv) 0	
0.40	DE	Debris, 10 % cross-sectional area loss	(Serv) 3	
1.70	DEG	Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss	(Serv) 3	
2.30	JN	Junction at 12 o'clock, dia 100 mm	(Constr) 0	
8.40	JN	Junction at 09 o'clock, dia 100 mm	(Constr) 0	
9.50	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0	
9.80	GO	General Observation Remarks: BASE OF STACK	(Misc) 0	
9.80	FH	Finish Survey	(Misc) 0	

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	2	2	0.41	4	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 40	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 15 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 15 D/S Depth : 01.35
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.35	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 15	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 41	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 16 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 16 D/S Depth : 01.25
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.70 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.25				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 16	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.80	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	3.70	LL	Line of Sewer deviates left Remarks: SHARP	(Serv) 0
	3.70	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	3.70	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	3.70	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 42	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 16 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 16 D/S Depth : 01.25
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.25	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 16	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 43	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place :	WESLEY SQUARE	Location details:	U/S MH :	BR 3
Road :	LANCASTER ROAD	Catchment: -	U/S Depth :	
Location	Gardens	Tape number : 1	D/S MH :	MH 16
Inspection	MH 16 (U/S) BR 3	Pipe length :	D/S Depth :	01.25

Use:	Combined	Pipe shape :	Circular
Year laid :	Z	Pipe size :	100 mm
Purpose :	Sample survey to determin asset condition	Pipe width :	
Total length :	8.00 m	Pipe Material :	Vitrified clay

Comment : TOTAL LENGTH ASSUMED 8.0M

1:60	Position	Code	Observation	Grade
Depth: 01.25				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 16	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.30	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	4.20	DE	Debris, 20 % cross-sectional area loss	(Serv) 4
	6.90	DE	Debris, 30 % cross-sectional area loss	(Serv) 4
	6.90	SA	Survey abandoned Remarks: DUE TO DEBRIS DEPOSITS	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	3	5	1.5	12	4

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 43	PLR suffix : X
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Photo: 43_6A
 6.9m, Debris, 30 % cross-sectional area loss



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 44	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 16 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 16 D/S Depth : 01.25
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.25				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 16	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	1.90	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	3.10	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	3.10	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	3.10	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	3.10	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	1.74	5.4	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 45	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 20 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 20 D/S Depth : 01.56
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.56	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 20	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 46	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 20 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 20 D/S Depth : 01.56
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50 Depth: 01.56	Position	Code	Observation	Grade
	MH 20	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 2	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	0.40	CC	Circumferential Crack, from 10 to 03 o'clock	(Struct) 2
	3.70	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.60	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.60	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.60	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.60	FH	Finish Survey	(Misc) 0



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	2.17	10	2	1	2	1.83	8.4	3

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 46	PLR suffix : X
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Photo: 46_5A
 0.4m, Circumferential Crack, from 10 to 03 o'clock



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 47	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 20 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 20 D/S Depth :
---	--	--	---

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 20	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	3.70	LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
	5.60	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	5.80	GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	5.80	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 48	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 20 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 20 D/S Depth : 01.56
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :	BR 4 = MH 12
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1:60 Depth: 01.56	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 20	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 21	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 49	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 21 (U/S) MH 22	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 22 U/S Depth : D/S MH : MH 21 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.20 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 21	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 04 to 08 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	3.20	F1	DEG Debris grease, from 04 to 08 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	3.20	MH	Manhole Remarks: MH 22	(Constr) 0
	3.20	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	1.75	5.6	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 50	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 22 (U/S) MH 23	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 23 U/S Depth : D/S MH : MH 22 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 22	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 23	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 51	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 20 (D/S) MH 24	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 20 U/S Depth : D/S MH : MH 24 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.30 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
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Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 20	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 24	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 52	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 24 (D/S) MH 25	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 24 U/S Depth : D/S MH : MH 25 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 24	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	5.60	MH	Manhole Remarks: MH 25	(Constr) 0
	5.60	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 53	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 25 (D/S) MH 26	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 25 U/S Depth : D/S MH : MH 26 D/S Depth :
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 25	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	3.50	MH	Manhole Remarks: MH 26	(Constr) 0
	3.50	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 54	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 26 (D/S) MH 27	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 26 U/S Depth : D/S MH : MH 27 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.70 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 26	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
		MH	Manhole Remarks: MH 27	(Constr) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 55	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 27 (D/S) MH 28	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 27 U/S Depth : D/S MH : MH 28 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :	TOTAL LENGTH ASSUMED 5.0M
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1:50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 27	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.60	RFJ	Fine Roots at joint	(Serv) 2
	1.90	WL	Water level, 30 % height/diameter	(Serv) 0
	2.40	DE	Debris, 20 % cross-sectional area loss	(Serv) 4
	2.50	SA	Survey abandoned Remarks: DUE TO DEBRIS DEPOSITS	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	2	5	1	5	4

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 55	PLR suffix : X
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Photo: 55_4A
 0.6m, Fine Roots at joint



Photo: 55_6A
 2.4m, Debris, 20 % cross-sectional area loss



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 56	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 23 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 23 D/S Depth : 01.33
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 7.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.33	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MKH 23	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 57	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 23 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 23 D/S Depth : 01.33
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.33				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 23	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.00	DEG	Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss	(Serv) 3
	3.80	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	5.10	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	5.10	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	5.10	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.39	2	3

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 58	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place :	WESLEY SQUARE	Location details:	U/S MH :	MAIN RUN
Road :	LANCASTER ROAD	Catchment: -	U/S Depth :	
Location	Gardens	Tape number : 1	D/S MH :	MH 23
Inspection	MH 23 (U/S) MAIN RUN	Pipe length :	D/S Depth :	01.33

Use:	Combined	Pipe shape :	Circular
Year laid :	Z	Pipe size :	100 mm
Purpose :	Sample survey to determin asset condition	Pipe width :	
Total length :	11.60 m	Pipe Material :	Vitrified clay

Comment :

Code	Observation	Grade
ST	Start of Survey	(Misc) 0
MH	Manhole Remarks: MH 23	(Constr) 0
WL	Water level, 5 % height/diameter	(Serv) 0
LL	Line of Sewer deviates left Remarks: SHARP	(Serv) 0
WL	Water level, 10 % height/diameter	(Serv) 0
LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
GO	General Observation Remarks: BASE OF STACK	(Misc) 0
FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 59	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 22 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 22 D/S Depth : 01.35
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 11.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :

1:90 Depth: 01.35	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 22	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE FO STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 60	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 22 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 22 D/S Depth : 01.35
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.35				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 22	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	2.90	DEG	Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss	(Serv) 3
	4.10	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	5.10	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	5.10	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	5.10	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.39	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 61	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 22 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 22 D/S Depth : 01.35
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.35	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
0.00	MH		Manhole Remarks: MH 22	(Constr) 0
0.00	WL		Water level, 5 % height/diameter	(Serv) 0
5.00	LL		Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
6.80	LU		Line of Sewer deviates up Remarks: SHARP	(Serv) 0
6.80	GO		General Observation Remarks: BASE OF STACK	(Misc) 0
6.80	FH		Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 62	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 21 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 21 D/S Depth : 01.40
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 7.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.40	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 21	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 63	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 21 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 21 D/S Depth : 01.40
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.40				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 21	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	3.70	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	5.10	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	5.10	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	5.10	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	5.10	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	1.84	9.4	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 64	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 21 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 21 D/S Depth : 01.40
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 11.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :

1:90 Depth: 01.40	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 21	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 65	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 21 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 21 D/S Depth : 01.40
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.70 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50 Depth: 01.40	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 21	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	2.60	LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
	3.10	BJ	Broken sewer at joint, from 12 to 1 o'clock Remarks: CHIPPED	(Struct) 4
	3.10	JDL	Joint displaced. Large	(Struct) 1
	3.70	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	3.70	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	2	0.54	2	1	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 65	PLR suffix : X
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Photo: 65_6A
3.1 m, Joint displaced. Large



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 66	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 24 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 24 D/S Depth : 01.53
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.53	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 24	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		RF	Fine Roots	(Serv) 2
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

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	1	1	1	0.15	1	2

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 66	PLR suffix : X
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Photo: 66_4A
4.4m, Fine Roots



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 67	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 24 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 24 D/S Depth : 01.53
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.53				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 24	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.50	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	4.10	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	5.00	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	5.00	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	5.00	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	5.00	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	1.4	7	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 68	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 24 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 24 D/S Depth : 01.56
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.90 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :

1:90 Depth: 01.56	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
0.00	MH		Manhole Remarks: MH 24	(Constr) 0
0.00	WL		Water level, 5 % height/diameter	(Serv) 0
5.30	LL		Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
10.70	LU		Line of Sewer deviates up Remarks: SHARP	(Serv) 0
10.90	GO		General Observation Remarks: BASE OF STACK	(Misc) 0
10.90	FH		Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 69	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 25 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 25 D/S Depth : 01.58
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.58	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 25	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 70	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 25 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 25 D/S Depth : 01.58
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.58				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 25	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.00	S1	DEbris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	2.70	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	3.90	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.50	F1	DEbris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.50	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.50	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.50	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	2	4	2	9	3



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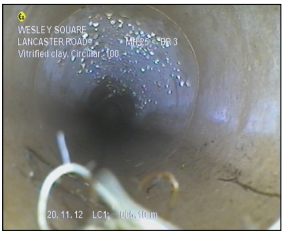
Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 71	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 25 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 25 D/S Depth : 01.56
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 7.20 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.56	Position	Code	Observation	Grade	
	MH 25				
0.00		ST	Start of Survey	(Misc) 0	
0.00		MH	Manhole Remarks: MH 25	(Constr) 0	
0.00		WL	Water level, 5 % height/diameter	(Serv) 0	
2.30		RF	Fine Roots	(Serv) 2	
3.10		CC	Circumferential Crack, from 12 to 12 o'clock Remarks: SPIRALS	(Struct) 2	
4.70		LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0	
5.10		CC	Circumferential Crack, from 12 to 12 o'clock	(Struct) 2	
6.80		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0	
7.20		GO	General Observation Remarks: BASE OF STACK	(Misc) 0	
7.20		FH	Finish Survey	(Misc) 0	
	BR 3				

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	10	2.78	20	2	1	1	0.14	1	2

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 71	PLR suffix : X
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Photo: 71_4A
 2.3m, Fine Roots



Photo: 483_5a
 3.1m, Circumferential Crack, from 12 to 12 o'clock Remarks: SPIRALS

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 71	PLR suffix : X
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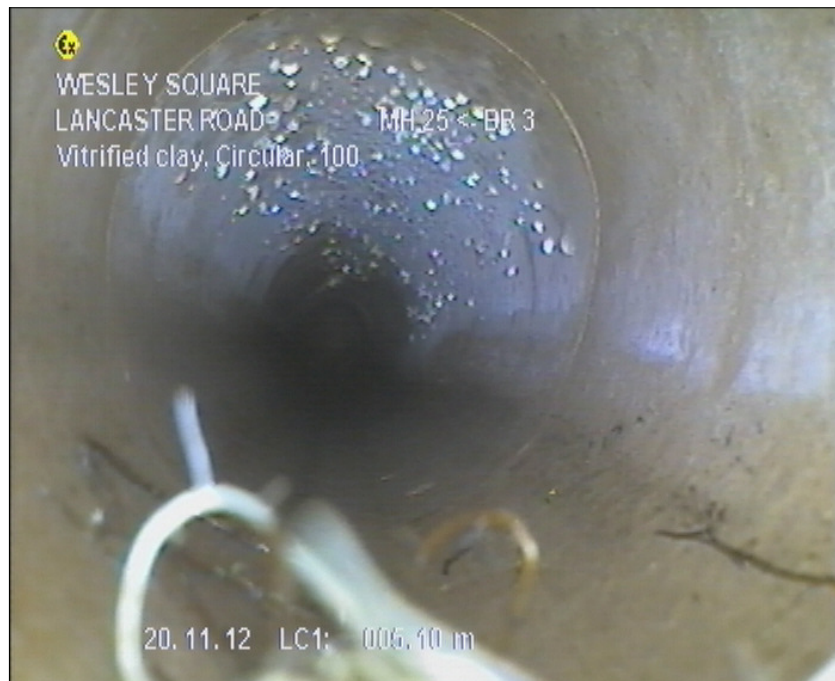


Photo: 485_7a
 5.1m, Circumferential Crack, from 12 to 12 o'clock



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 72	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 26 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : U/S Depth : D/S MH : D/S Depth :	BR 1 MH 26 01.63
---	--	---	--	--------------------------------------

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment : **TOTAL LENGTH ASSUMED 5.0M**

1:50 Depth: 01.63	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 26	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		JDL	Joint displaced. Large	(Struct) 1
		SA	Survey abandoned Remarks: DUE TO LARGE DISPLACED JOINT	(Misc) 0



3.7 m

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	2	0.4	2	1	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 72	PLR suffix : X
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Photo: 492_4a
 3.7m, Joint displaced. Large



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 73	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 26 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 26 D/S Depth : 01.63
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.63				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 26	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.00	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	2.90	DEG	Debris grease, from 04 to 08 o'clock, 20 % cross-sectional area loss	(Serv) 4
	3.70	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.60	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.60	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.60	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.60	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	2	7	2.65	12.2	4



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 74	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 26 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 26 D/S Depth : 01.56
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Depth: 01.56	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 26	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
		DEG	Debris grease, from 9 to 3 o'clock, 5% cross-sectional area loss	(Serv) 3
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	0.19	2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 75	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 27 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 27 D/S Depth : 01.60
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.60				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 27	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	3.20	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	4.00	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.00	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.00	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 76	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 27 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 27 D/S Depth : 01.60
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.20 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :

1:90 Depth: 01.60	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 27	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	0	0	0	0	1



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 77	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 27 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 27 D/S Depth : 01.60
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.60				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 27	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	3.80	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.60	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.60	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.60	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.60	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	1.83	8.4	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 78	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 27 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 27 D/S Depth : 01.60
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment :

1:60 Depth: 01.60	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 27	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	1.60	LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0
	2.70	CC	Circumferential Crack, from 11 to 08 o'clock	(Struct) 2
	4.30	LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
	5.70	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
	6.00	GO	General Observation Remarks: BASE OF STACK	(Misc) 0
	6.00	FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	1.67	10	2	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 78	PLR suffix : X
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Photo: 538_5a
2.7m, Circumferential Crack, from 11 to 08 o'clock



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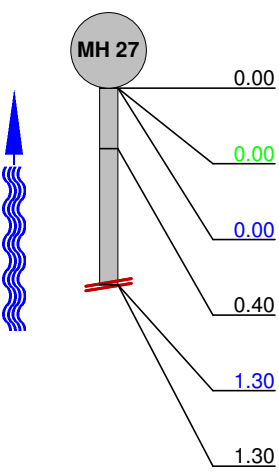
Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 79	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 27 (U/S) BR 5	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 5 U/S Depth : D/S MH : MH 27 D/S Depth : 01.60
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 2.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :	TOTAL LENGTH ASSUMED 2.0M
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1:50 Depth: 01.60	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 27	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		GO	General Observation Remarks: REAR OF I/C TRAP	(Misc) 0
		DE	Debris, 20 % cross-sectional area loss	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO DEBRIS DEPOSITS	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	5	2.5	5	4

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 79	PLR suffix : X
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Photo: 79_5A
1.3m, Debris, 20 % cross-sectional area loss



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 80	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 28 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 28 D/S Depth : 01.50
---	--	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	--	--	--

Comment : **BR 1 = MH 9. TOTAL LENGTH ASSUMED 6.0M.**

1:50 Depth: 01.50	Position	Code	Observation	Grade
0.00		ST	Start of Survey	(Misc) 0
0.00		MH	Manhole Remarks: MH 28	(Constr) 0
0.00		WL	Water level, 5 % height/diameter	(Serv) 0
1.10		RFJ	Fine Roots at joint	(Serv) 2
1.40		ESM	Medium Scale from 05 to 07 o'clock, 10% cross-sectional area loss	(Serv) 3
3.50		ESH	Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss	(Serv) 4
3.80		GO	General observation Remarks: SEE SECTION 80 FOR OVERLAP SURVEY	(Misc) 0
3.80		SA	Survey abandoned	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	3	5	1.17	7	4

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 80	PLR suffix : X
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Photo: 80_6A

3.5m, Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 81	PLR suffix : X
Present :	Vehicle : HX08XGG	Camera : Flexi	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 28 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 28 D/S Depth : 01.50
Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay

Comment :

1:60 Depth: 01.50	Position	Code	Observation	Grade	
0.00	ST	Start of Survey	(Misc) 0		
0.00	MH	Manhole Remarks: MH 28	(Constr) 0		
0.00	WL	Water level, 5 % height/diameter	(Serv) 0		
2.40	FC	Circumferential Fracture, from 12 to 12 o'clock	(Struct) 3		
2.40	RF	Fine Roots	(Serv) 2		
3.30	RF	Fine Roots	(Serv) 2		
4.00	CC	Circumferential Crack, from 12 to 12 o'clock	(Struct) 2		
4.90	LR	Line of Sewer deviates right Remarks: SLIGHT	(Serv) 0		
6.40	LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0		
6.60	GO	General Observation Remarks: BASE OF STACK	(Misc) 0		
6.60	FH	Finish Survey	(Misc) 0		

Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	40	7.58	50	3	2	2	0.3	2	3

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 81	PLR suffix : X
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Photo: 559_4a
 2.4m, Circumferential Fracture, from 12 to 12 o'clock



Photo: 81_6A
 3.3m, Fine Roots

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 81	PLR suffix : X
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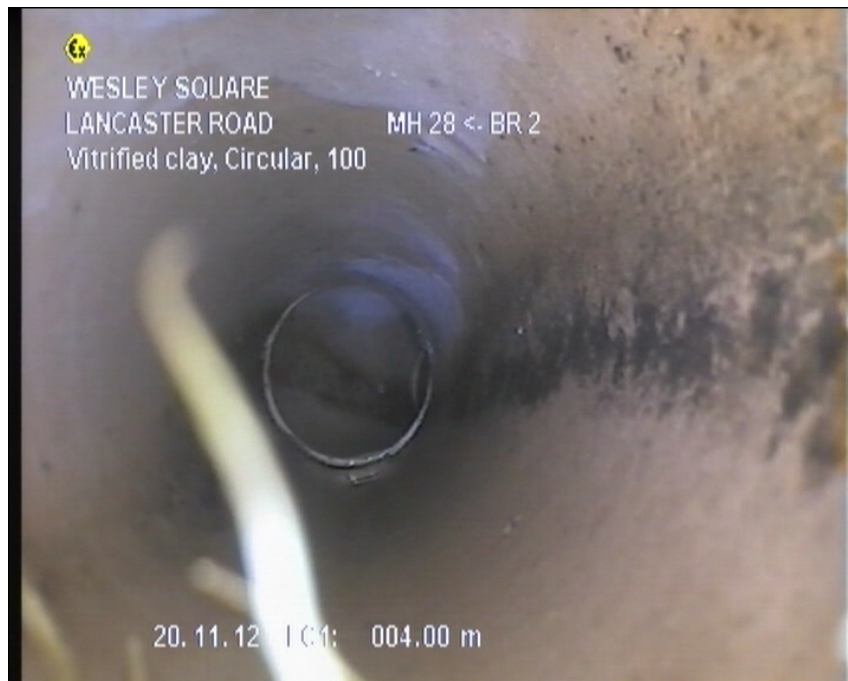


Photo: 81_7A
 4m, Circumferential Crack, from 12 to 12 o'clock



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 82	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 28 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 28 D/S Depth : 01.50
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.40 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50 Depth: 01.50	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 28	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	0.40	RM	Mass Roots 20 % cross-sectional area loss	(Serv) 5
	1.20	JDM	Joint displaced. Medium	(Struct) 1
	3.30	LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
	3.30	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.40	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.40	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.40	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.40	FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	0	0	0	1	2	12	4.09	18	5

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 82	PLR suffix : X
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Photo: 571_5a
 0.4m, Mass Roots 20 % cross-sectional area loss

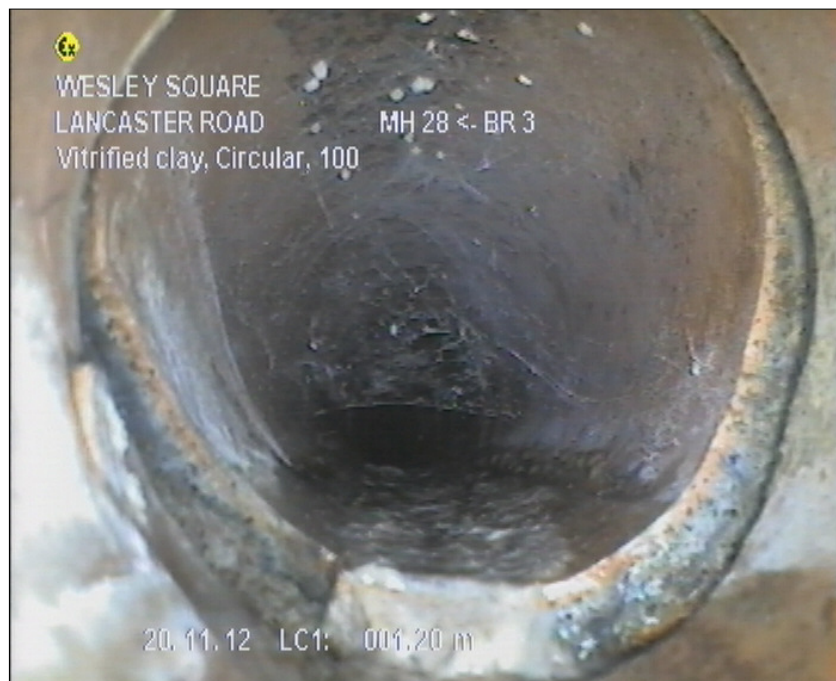


Photo: 572_6a
 1.2m, Joint displaced. Medium



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 83	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 28 (U/S) BR 4	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 4 U/S Depth : D/S MH : MH 28 D/S Depth : 01.50
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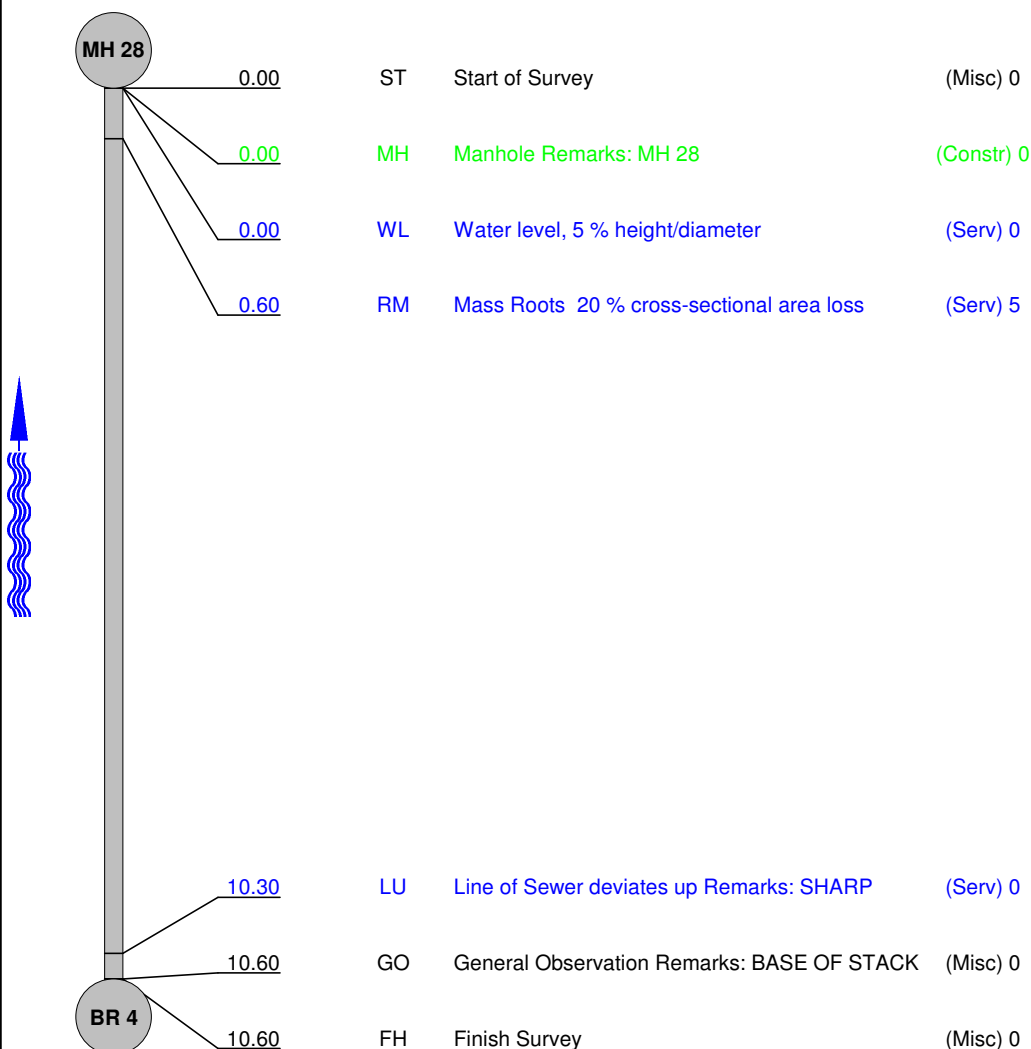
Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 10.60 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:90 Position
Depth: 01.50

Code Observation

Grade



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

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	1	1	10	0.94	10	5

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 83	PLR suffix : X
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Photo: 582_4a
 0.6m, Mass Roots 20 % cross-sectional area loss



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 84	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 28 (U/S) MH 27	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : MH 27 U/S Depth : D/S MH : MH 28 D/S Depth :
---	---	--	--

Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 3.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
--	--	--	--

Comment :

1:50	Position	Code	Observation	Grade
	MH 28			
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 28	(Constr) 0
	0.00	WL	Water level, 15 % height/diameter	(Serv) 0
	0.60	DE	Debris, 5 % cross-sectional area loss	(Serv) 3
	1.50	CC	Circumferential Crack, from 12 to 12 o'clock	(Struct) 2
	3.00	MH	Manhole Remarks: MH 27	(Constr) 0
	MH 27			
	3.00	FH	Finish Survey	(Misc) 0



Structural Defects

Constructional Features

Service Defects

Miscellaneous Features

STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	3.33	10	2	1	2	0.67	2	3

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 84	PLR suffix : X
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Photo: 84_5A
1.5m, Circumferential Crack, from 12 to 12 o'clock



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 85	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 28 (D/S) MAIN RUN	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : U/S Depth : D/S MH : D/S Depth :	MH 28 MAIN RUN
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 15.80 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 150 mm Vitrified clay
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Comment :	MAIN RUN = MH 30
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1:135	Position	Code	Observation	Grade
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 28	(Constr) 0
	0.00	WL	Water level, 10 % height/diameter	(Serv) 0
	0.60	S1	ESL Light Scale from 05 to 07 o'clock, Start	(Serv) 2
	1.30	FL	Longitudinal Fracture at 12 o'clock	(Struct) 3
	1.30	FC	Circumferential Fracture, from 12 to 12 o'clock	(Struct) 3
	13.20	GO	General Observation Remarks: POSSIBLE DISUSED FILLED IN MH	(Misc) 0
	14.40	LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
	15.80	CU	Camera Underwater	(Misc) 0
	15.80	F1	ESL Light Scale from 05 to 07 o'clock, Finish	(Serv) 2
	15.80	MH	Manhole Remarks: MH 30	(Constr) 0
	15.80	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
2	80	5.06	80	4	1	1	0.96	15.2	2

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 85	PLR suffix : X
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Photo: 86_5a
 1.3m, Longitudinal Fracture at 12 o'clock



Photo: 86_6a
 1.3m, Circumferential Fracture, from 12 to 12 o'clock

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 85	PLR suffix : X
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Photo: 599_7a
 13.2m, General Observation Remarks: POSSIBLE DISUSED FILLED
 IN MH



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 86	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 29 (U/S) BR 1	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 1 U/S Depth : D/S MH : MH 29 D/S Depth : 01.06
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 4.50 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50	Position	Code	Observation	Grade
Depth: 01.06				
	0.00	ST	Start of Survey	(Misc) 0
	0.00	MH	Manhole Remarks: MH 29	(Constr) 0
	0.00	WL	Water level, 5 % height/diameter	(Serv) 0
	0.40	S1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Start	(Serv) 3
	3.30	LL	Line of Sewer deviates left Remarks: SLIGHT	(Serv) 0
	3.30	LU	Line of Sewer deviates up Remarks: SLIGHT	(Serv) 0
	4.50	F1	DEG Debris grease, from 05 to 07 o'clock, 5 % cross-sectional area loss, Finish	(Serv) 3
	4.50	GO	General Observation Remarks: LINE LEVELS OUT	(Misc) 0
	4.50	GO	General Observation Remarks: REAR OF TRAP	(Misc) 0
	4.50	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	2	1.82	8.2	3



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 87	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 29 (U/S) BR 2	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 2 U/S Depth : D/S MH : MH 29 D/S Depth : 01.06
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 11.10 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
--	---	--	--

Comment :

1:90 Depth: 01.06	Position	Code	Observation	Grade
	MH 29	ST	Start of Survey	(Misc) 0
0.00		MH	Manhole Remarks: MH 29	(Constr) 0
0.00		WL	Water level, 5 % height/diameter	(Serv) 0
0.00		RF	Fine Roots	(Serv) 2
2.10				
4.60		CC	Circumferential Crack, from 12 to 12 o'clock	(Struct) 2
8.70		LL	Line of Sewer deviates left Remarks: SHARP	(Serv) 0
10.80		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
11.10		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
11.10	BR 2	FH	Finish Survey	(Misc) 0

Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	10	0.9	10	2	1	1	0.09	1	2

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 87	PLR suffix : X
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Photo: 621_5a
 4.6m, Circumferential Crack, from 12 to 12 o'clock



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Inspection report

Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 88	PLR suffix : X
Present :	Vehicle : HX08XGG	Camera : Flexi	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 29 (U/S) BR 3	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : BR 3 U/S Depth : D/S MH : MH 29 D/S Depth : 01.06
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 5.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment :

1:50 Depth: 01.06	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 29	(Constr) 0
		WL	Water level, 5 % height/diameter	(Serv) 0
		FM	Multiple Fractures from 12 to 12 o'clock	(Struct) 4
		LU	Line of Sewer deviates up Remarks: SHARP	(Serv) 0
		GO	General Observation Remarks: BASE OF STACK	(Misc) 0
		FH	Finish Survey	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
STR no def	STR peak	STR mean	STR total	STR grade	SER no def	SER peak	SER mean	SER total	SER grade
1	80	16	80	4	0	0	0	0	1

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 88	PLR suffix : X
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Photo: 629_4a
 3.3m, Multiple Fractures from 12 to 12 o'clock



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Date : 19/11/2012	Job number : 40433	Weather : Dry	Sewer category:	Section number : 89	PLR suffix : X
Present :	Vehicle : HX08 XGG	Camera : FLEXI PROBE	Lining	Cleaned : no	Operator : Steve Knight

Place : Road : Location Inspection	WESLEY SQUARE LANCASTER ROAD Gardens MH 29 (D/S) MH 28	Location details: Catchment: - Tape number : 1 Pipe length :	U/S MH : U/S Depth : D/S MH : D/S Depth :	MH 29 01.06 MH 28
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Use: Year laid : Purpose : Total length :	Combined Z Sample survey to determin asset condition 6.00 m	Pipe shape : Pipe size : Pipe width : Pipe Material :	Circular 100 mm Vitrified clay
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Comment : **OVERLAP SURVEY. TOTAL LENGTH ASSUMED 6.0M**

1:50 Depth: 01.06	Position	Code	Observation	Grade
		ST	Start of Survey	(Misc) 0
		MH	Manhole Remarks: MH 29	(Constr) 0
		WL	Water level, 10 % height/diameter	(Serv) 0
		ESH	Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss	(Serv) 4
		SA	Survey abandoned Remarks: DUE TO HEAVY SCALE	(Misc) 0



Structural Defects					Constructional Features				
Service Defects					Miscellaneous Features				
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	1	1	5	0.83	5	4

Inspection pictures

Place : WESLEY SQUARE	Road : LANCASTER ROAD	Date : 19/11/2012	Section number : 89	PLR suffix : X
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Photo: 89_4A

0.4m, Heavy Scale from 04 to 08 o'clock, 25% cross-sectional area loss

TERMS AND CONDITIONS

1 DEFINITIONS AND INTERPRETATION

The following definitions apply in these terms and conditions:

“**Conditions**” these terms and conditions. “**Confirmation**” our confirmation of your order attached to these Conditions.

“**Contract**” the Confirmation together with the Conditions. “**Customer**” the person, firm or company who purchases Work from the Supplier.

“**Supplier**” UKDN Limited. “**Work**” the work and services to be provided by the Supplier under the Contract as set out in the Supplier’s Confirmation or, (where a Confirmation has not been provided) the quotation.

2 LIMITATIONS OF THE REPORT

2.1 It should be noted that the exact layout of the system cannot be confirmed without the exposure of inaccessible branches, connections and all other inaccessible sections.

2.2 A CCTV survey alone should not be a guarantee of water tightness.

2.3 The Report is not a structural survey and must not be construed as such.

2.4 The views expressed in this report are based entirely upon a visual examination of the drainage, supported by information obtained from a drainage CCTV inspection and or a water pressure test.

2.5 The drawing contained within or accompanying the report is not a scaled drawing and is for reference purposes only.

3 RIGHTS OF ORIGINATOR

3.1 This report is for the sole use of the customer.

3.1.1 It must not be reproduced or transferred to any other third party without the express written consent of supplier.

3.2 This is a condition report of the drain/sewer at the time and date of the survey being carried out only.

3.3 We reserve the right to amend our opinions in the event of additional information being made available at some future date.

4 CUSTOMER’S OBLIGATIONS

4.1 It is the Customer’s responsibility to provide the Supplier, in sufficient time, with any information and instructions relating to the Work that is, or are, necessary to enable the Supplier to provide the Work in accordance with the Contract.

4.2 The Customer shall inform the Supplier in writing in good time of any dangerous materials or hazards that may be present on the premises and which could constitute a danger to any person.

4.3 If the Customer fails to provide the information required in clause 4.2 above, or provides the Supplier with incomplete, incorrect or inaccurate information or instructions, the Supplier may:

4.3.1 make an additional charge of a reasonable sum to cover any extra work that is required; or

4.3.2 cancel the Contract by giving written notice to the Customer.

5 ACCESS

5.1 The Customer shall provide clear access to all drains, sewers, inspection covers and manholes to enable the Supplier to carry out the Work.

5.2 Where the Customer’s drains are shared with third parties, the Supplier will request written permission from the relevant third party(ies). In the event that permission cannot be obtained, the Supplier will have the right to cancel the Contract and shall have no liability to the Customer in respect of any such cancellation.

5.3 The Customer shall obtain permission for the Supplier to proceed over property belonging to third parties and/or to carry out work on property belonging to third parties where this is necessary for the proper execution of the Work.

6 WATER AND POWER

6.1 The Customer shall provide all necessary power and a clean water supply from the mains or fire hydrant.

6.2 Where it is necessary for the Supplier to use a metered hydrant and supply controlled by the water authorities, the Supplier will invoice all charges made by that authority to the Customer and the Customer shall pay such charges within 7 days of receipt of the Supplier’s invoice.

7 WORK GUARANTEE

7.1 Subject to the following provisions of this Condition 7, the Supplier guarantees completed unblock and survey Work for a period of 28 days from the date of completion.

7.2 The Customer shall inspect the Work as far as it is reasonably possible immediately on completion of it and shall as far as reasonably practicable notify the Supplier of any reason for believing that the work carried out by the Supplier is not in accordance with the Contract within seven days of completion.

7.3 If the Customer fails to give such notice the Work shall conclusively be presumed free from any defects which would be apparent on reasonable examination of the Work.

7.4 The Supplier reserves the right not to carry out work requested under the guarantee until the Supplier has been paid. The Supplier also reserves the right to delay or withhold performance of the guarantee where the Supplier has advised the Customer that, although clear, the drains need further work or have a possible fault.

8 LIMITATION OF LIABILITY - THE CUSTOMER’S ATTENTION IS PARTICULARLY DRAWN TO THE PROVISIONS OF THIS CONDITION

8.1 The Supplier warrants to the Customer that the Work will be provided using reasonable care and skill and, unless the Supplier is prevented by circumstances beyond its reasonable control, in accordance with the Confirmation.

8.2 The Supplier shall have no liability to the Customer for any loss, damage, costs, expenses or other claims for compensation arising from:

8.2.1 any information or instructions supplied by the Customer which is or are incomplete, incorrect or inaccurate; or

8.2.2 any failure by the Customer to obtain proper access over any property of any third party required in accordance with clause 5; or

8.2.3 any damage or defect caused by any third party.

8.3 The Supplier shall have no liability to the Customer for any loss, damage, costs, expenses or other claims for compensation arising from any indirect or consequential loss, damage or expenses.

8.4 The Supplier’s liability in respect of any other loss or damage shall be limited to the price paid by the Customer.

8.5 The Supplier shall not be liable to the Customer by reason of any delay in performing, or any failure to perform, any of its obligations in relation to the Work, if the delay or failure was due to:

8.5.1 any act of God, war, terrorism, power failure, or any other cause beyond the Supplier’s reasonable control; or

8.5.2 any risk to health and safety or the environment, however, the Supplier will try to minimise any such problems where reasonably practicable.

8.6 The Supplier will not be liable for any fractured or frozen pipes and cannot guarantee to clear blockages occurring in a frozen pipe or drain.

8.7 Nothing in these Conditions affects any liability for death or personal injury caused by the Supplier’s negligence or for fraudulent misrepresentation, or the Customer’s statutory rights as a consumer.

9 DATA PROTECTION

9.1 The Supplier will use personal information provided by the Customer for the purposes of:

9.1.1 providing the Work;

9.1.2 carrying out marketing and statistical analysis and we may disclose your information to our service providers for these purposes;

9.1.3 informing the Customer by post or telephone about similar products and services provided by the Supplier and/or its related companies.

9.2 The Customer acknowledges and agrees that details of the Customer’s name, address and payment record may be submitted to a credit reference agency.

9.3 The Customer can correct any information, or ask for information about the Customer to be deleted, or opt-out of receiving any marketing information by post or by telephone by giving written notice to the Supplier at the address, fax number or email address shown on the Confirmation and/or any customer satisfaction questionnaire provided.

10 GENERAL

10.1 If any provision (or part of a provision) of this Contract is found by any court or administrative body of competent jurisdiction to be invalid, unenforceable or illegal, the other provisions will remain in force.

10.2 If any invalid, unenforceable or illegal provision of this Contract would be valid, enforceable or legal if some part of it were changed deleted, that provision will apply with whatever changes are necessary to make the relevant provision valid, enforceable and legal.

10.3 A delay by either party in acting on a breach of this Contract will not prevent the other party from taking action in respect of that breach or any subsequent breach of this contract.

10.4 Nothing in the Contract gives any right to any third party to enforce any provision under the Contract (Rights of Third Parties) Act 1999 or otherwise.

10.5 These Conditions and the Contract will be subject to English law, and the English courts will have jurisdiction in respect of any dispute arising from the Contract.