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Drainage Survey Report

Client

Norwich Union
 Central Scanning Team
 P O Box 121
 Surrey Street

 NR1 3ZH

Customer Name

Mr E Appleton
 7 Church Lane
 Eccleston
 St Helens

 WA10 5AB 01744454044

Date & Time Job Received 29/12/2008 11:47 **Appointment Date** 30/12/2008

Survey No. NUA0192835-S0 **Client Ref.**

Property Details :
Property Type : Bungalow
Age of Property : < 10 YEARS
Time Resident : < 10 YEARS

Assumed Cause : Tree Roots
Age of Damage : 6 months
3rd Party Recovery : N
Covered by N.H.B.C : N
Section 24 : N
Damage Under Drive : Y

Video Overview :
Surface Category : 0
Contact on Arrival : Policy Holder
Manholes Clear :
Diameter of Pipe : 150mm / 6i
Pipe Material : Clay
Surveyed By : PAUL SKIDMORE
Contact Number 07825 057916
Survey Type : Unblock and CCTV

Site Plan Attached : \\ANSACLUSTER\MII
Camera Stills : NUA0192835-S0-A.jp

Manholes

No.	Inv Lev.	Blocked	Int'cpt	BackDrop
1	2.4	Y	N	Y

Faults Found

No.	Meterage	Code	Description
1	0	ST	Start Survey, MH1 downstream
2	0	WL	Water Level .00..... % Height/diameter
3	0.2	H	Hole in Drain at (or from 6 to9....) o'clock
4	1.4	RF	Roots Fine
5	2.2	DE	Debris (non-silt/grease) ..10....% cross-sectional area loss
6	3.5	RM	Roots Mass ..70..... % cross-sectional area loss
7	4	RM	Roots Mass .90..... % cross-sectional area loss
8	6	RF	Roots Fine
9	7	RM	Roots Mass ..40..... % cross-sectional area loss
10	7.6	RM	Roots Mass ...80.... % cross-sectional area loss
11	8.7	MC	Material of drain changes from clay to plastic
12	9.2	MC	Material of drain changes from plastic to clay
13	9.6	RF	Roots Fine
14	10.4	RF	Roots Fine
15	10.6	LDM	Line of Drain deviates down from 30 degrees to 60 degrees of deviation

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 registered in england no. 4275760

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 Broadway Business Park, Chadderton, Oldham, Manchester OL9 9XA

16	11.1	GO	line of drain levels
17	13.6	GO	pulled joint down
18	14.2	FH	Finish Survey,Main sewer
19	0		
20	0	ST	Start Survey,MH1 upstream
21	0	WL	Water Level ...00.... % Height/diameter
22	0.2	BDS	Back drop shaft
23	0.2	GO	survey continued over dropshaft
24	0.5	RM	Roots Mass ...80.... % cross-sectional area loss
25	0.6	MH	Buried Manhole
26	0.7	FH	Finish Survey,Buried manhole
27	0		
28	0	ST	Start Survey,Buried manhole upstream
29	0	WL	Water Level ..00..... % Height/diameter
30	0	DC	Dimension of drain changes, new dimension .100..... mm
31	0.6	RF	Roots Fine
32	4	FH	Finish Survey

Notes :

On arrival to site the Policyholder (Ph) explained the manhole on his driveway is partially charged manhole 1 (mh), he also explained a previous repair was carried out approx 5 years ago where the footpath was excavated to replace some pipework that was damaged by roots. Due to this previous repair the Ph informed me that mh1 is shared with the neighbours at number 5 and 9.

Mh1 was inspected, this was partially blocked, root ingress was also visible in the brickwork. Mh1 also had a dropshaft upstream of the chamber, this was also blocked as the rodding access was overflowing. High Power Water Jetting (hpwj) and rodding was required to restore flow both upstream (u/s) and downstream (d/s) of Mh1. A cctv survey was firstly carried out downstream of mh1 which showed mass root ingress in the first 11metres. The survey was finished at 14.2metres at the main sewer, this section was found to be ok.

Another cctv survey was carried out upstream of mh1 from the rodding access at the top of the dropshaft. This revealed a buried manhole at 0.6metres which had mass root ingress. This manhole is where numbers 5, 7 & 9 all become shared. The survey was continued upstream of the buried manhole on the section private to the ph. The only fault found was fine roots at 0.6metres.

I would recomend the following works:-

REPAIR 1 - The pipework downstream of mh1 will require root cutting and a 150mm liner installed upto 10.5metres, this is just before the pipework drops but there are fine roots just before this point which the liner should be able to seal. Mh1 will require repointing as the root ingress has damaged some of this. Confined space equipment required as Mh1 is 2.4metres deep, Mh1 has steps built into the brickwork.

REPAIR 2 - An excavation is required upstream of mh1 under the block paving driveway to expose the buried manhole. Contractor can then assess what further works are required. Root ingress has already been established but the chamber may require re channeling and re benching.

REPAIR 3 - (repair private to PH), from the buried manhole a 100mm patch liner is required 0.6metres upstream to cover the fine roots.

REP	REP 3:- Buried manhole upstream	0.00	0.00
PLIN21.25	Single patch liner 100mm x 1 metre	0.50	1.50
GO	See Notes	0.00	0.00

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