

Jetting and Camera Examination of Drains on the Village Green – 24/08/22

1) Diagram of drains jetted and examined



2) Bill's diagram after our rodding session



I'll go through the outcomes using the colour coding on the drains on diagram 1 above.

Green Drain

This was blocked by tree roots and gravel some 1.5 to 3.0 metres from the bottom storm drain (yellow line marked 1). They blew the gravel out and removed as many of the tree roots as possible but some are too big and wouldn't break. Water was running freely along this after jetting but with the tree roots still there it may well block up again. This is a modern plastic drain.

Suggested actions

- dig down to the drain along the affected area and cut and remove the tree roots from the outside. Look to stop these re-establishing – maybe with some concrete over the area where they were getting in.
- there is a catch pit under the manhole cover at the top of the drain run which is pretty full up – this needs to be cleared out. Pretty simple to do.



Some of the smaller roots.

Red Drain

This was jetted from the well to the manhole cover from both ends. This is an old fashioned red clay pipe drain from the well to the manhole. There was an obstruction the jet couldn't get past from both directions at the yellow dot marked 2. The camera seemed to show some something fibrous at this point (possibly roots). The jetter blew down some bits of possible broken pipe but the drain was running OK. After this water was flowing freely along the entire length of the red drain – so right down to the roadside storm drain. The red drain flows into the bottom storm drain at the same point as the purple drain and it's very difficult to see where the junction is. Using the camera from the storm drain at the bottom seemed to show a break but

not a blockage where lengths of pipe were out of alignment at yellow dot 3. About 4 metres up from the storm drain. The run from the manhole cover in front of the Old Bakery down to the first storm drain was quite silted up but cleared pretty well with the water running down from the jetter. The manhole cover surround has broken free and is no longer attached to the bricks below – only the gravel keeps it in place.

Suggested actions

- dig down to the blockage point at yellow dot 2 to remedy the issue
- keep the run from the manhole down to the storm drain clear with regular rodding every few years.
- reset/replace the manhole cover to make it safer.



Jetted from bottom and top to end of red bit of hose.

Purple Drain

This was jetted and clear quite a long way until it hit a solid blockage. It's difficult to tell exactly which direction this drain runs in as we don't have an end point. It could form a junction with the red drain but that's very difficult to tell. When the red drain was jetted the water flowed along the red route and didn't use the purple route which implies that even there is a junction it is blocked. The camera showed the pipes out of alignment about 4m up from the storm drain at yellow dot 3 (see picture below). These look like quite substantial clay/concrete pipes. As stated above there must be a junction with the red drain before the storm drain as red and purple both come out of the same hole. Where we don't know.

Suggested actions

- maybe leave this one alone – could dig out the misaligned pipes but as long as water flows along the red drain why bother?



Misaligned pipes



Camera where pipes are out of line



Jetted clear to the end of the red hose – exact position of drain unknown.

Orange Drain

This is completely clear and free. The camera seemed to show a possible connection at blue dot 4 which could be from the French drain that HCC installed back in 2011. Can't be working properly as we still get the massive soggy patch. No suggested actions.



French drain done by HCC in 2011 from google streetview.

My Overall Suggestion

This is just to get the ball rolling.

Fix the problems at yellow line 1 and yellow dot 2. This should allow water to flow freely along the green drain and the red drain and remove obstructions which could recreate the blockage. See if this makes things better this winter – hopefully if water can get away freely from the well this will help. If soggy patches re-appear think again. Sorting out the purple drain is difficult as we don't know where to dig.

Also – empty the catch pit in the manhole at the top of the green drain and reset/replace the manhole cover in front of the Old Bakery.