Lavant Valley Infiltration Plan

Appendix B – Mitigation Measures





Appendix B

APPENDIX B

Mitigation measures

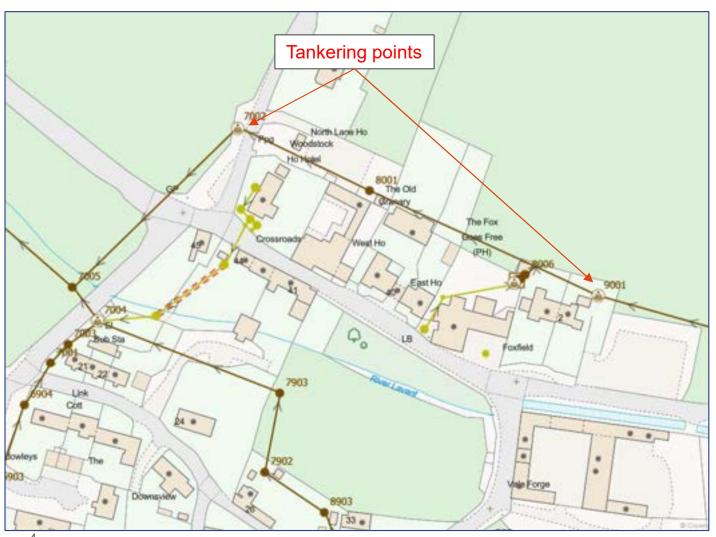
See notes in Section 4 regarding the potential need to introduce mitigation measures to reduce the risk of groundwater infiltration impacting the level of service provided by the sewerage system. Location of sites will be selected to provide the most effective arrangements to maintain services, whilst minimising environmental effects. Where practical, sites that have been used previously are expected to be re-used (when necessary), but the use of different locations cannot be ruled out, if hydraulic conditions dictate.



Tanker Locations



Charlton — tankers will be deployed to the locations below



Tankers deployed to nodes 9001 and 7002

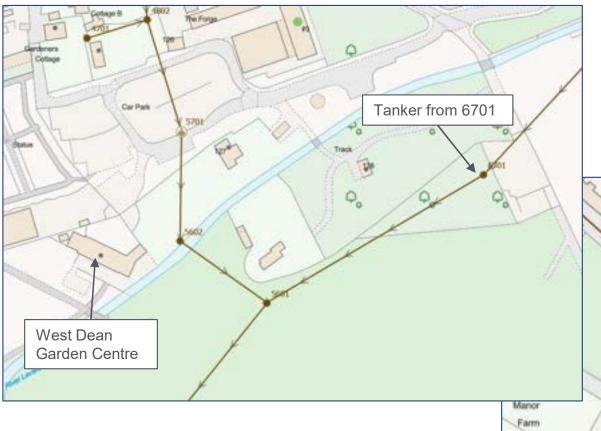
What3Words:

9001 = brass.chatter.handover

7002 = sulk.beaten.abruptly



West Dean — tankers will be deployed to the locations below



What 3 words:

6701 = outbound.than.risky

8302 = slant.rocker.petulant



Groundwater Treatment Locations



At our groundwater treatment sites excess flow is extracted from the sewer by pumping. This flow is passed through screens to remove rags and solids. The screened flow is then passed through a cloth filter to remove fine deposits from the liquid flow.

After the finer solids have been removed the liquid flow is passed through ultra-violet lamps which kill harmful bacteria such as e.coli and enterococci. The resultant treated flow is then discharged to the watercourse.



Monitoring

We will monitor at all times 24/7 the performance of the groundwater treatment process

We will use sondes in watercourse upstream and downstream of the discharge to ensure no impact on the environment We will spot sample and take daily bottled samples to determine the quality of flow discharged from the treatment process

The quality of the treated flow will meet the standard set out in the table below.

	NH3-N	BOD	COD	рН	P	SS	E.Coli	Enterococci
Determinand	(mg/l)	(mg/l)	(mg/l)	(pH Units)	(mg/l)	(mg/l)	(no./100ml)	(no./100ml)
Crude influent	5.6	18.8	44	7.62	3.19	53.77	230000	41500
Treated effluent	2.5	9.4	22	7.71	2	11	100	100
Removal Efficiency	55%	50%	50%	n/a	37%	80%	>99%	>99%



East Dean — groundwater treatment units will be deployed to the location below



Flow taken from node 0001.

Flow treated in groundwater treatment unit and discharged to River Lavant.

What3words:

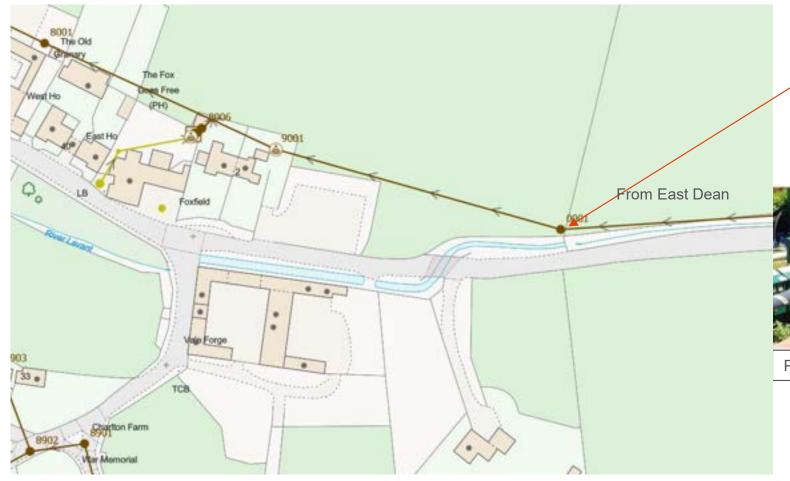
0001 = releasing.note.uttering



Photo of groundwater treatment unit.



Charlton — groundwater treatment units will be deployed to the location below



Flow taken from node 0001. Treated in groundwater treatment unit and discharged to River Lavant

What3words:

0001 = variation.mainland.tester



Photo of groundwater treatment unit.



Charlton — groundwater treatment units will be deployed to the location below



Flow taken from node 7005. Treated in groundwater treatment unit and discharged to River Lavant

What3words:

7005 = couches.warping.attention



Photo of groundwater treatment unit.

