

# Southern Water Pan Parish Forum

Quarterly meeting

6.9.22



from  
**Southern**  
**Water** 

# Agenda

1. Welcome & Intro - Chris Harris (PPF) Simon Parker (SW)
2. Structure - Keith Herbert (SW)
3. Recap and Problem Statement - KH (SW)
4. Operational Mitigation
  - led by Floyd Cooper (SW)
    - Tankering
    - Overpumping
    - Pollution Event Exercise
5. Capital improvement works - led by KH (SW)
  - Private Lateral works
  - Phase 4 relining works
  - Nature based solution
6. Actions from previous meeting
7. AOB & date of next meeting

# Our structure and liaison with PPF

Nick Mills  
Head of Storm  
Overflow Taskforce

Simon Parker  
Director of Asset  
Management

Floyd Cooper  
Operational  
Manager Hants

Keith Herbert  
Pathfinder lead

Glenn  
McCubbin  
Local lead

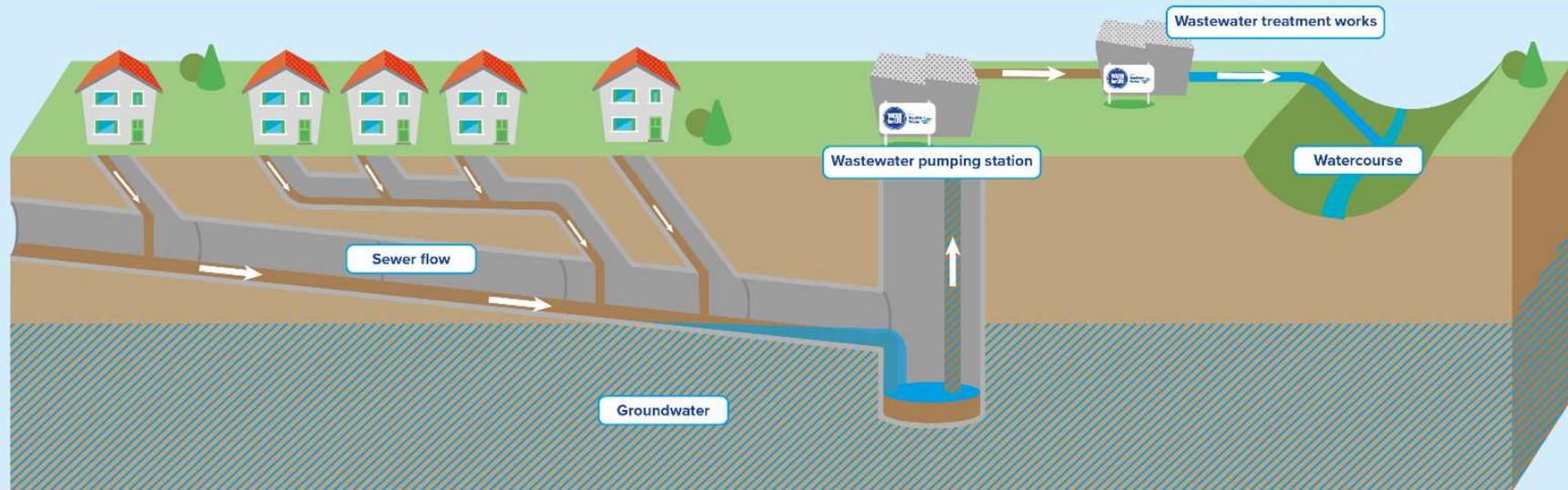
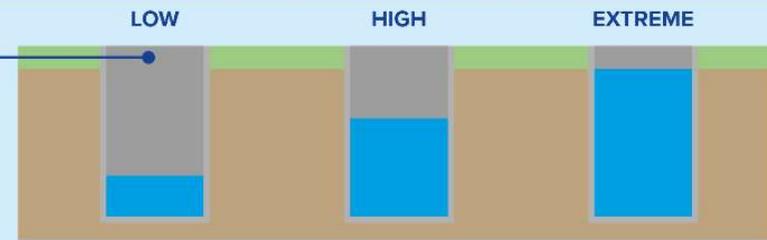
Tankering  
Overpumping  
Repairs  
Maintenance  
Incidents

Project work  
Design  
Targeting  
Delivery  
Engagement

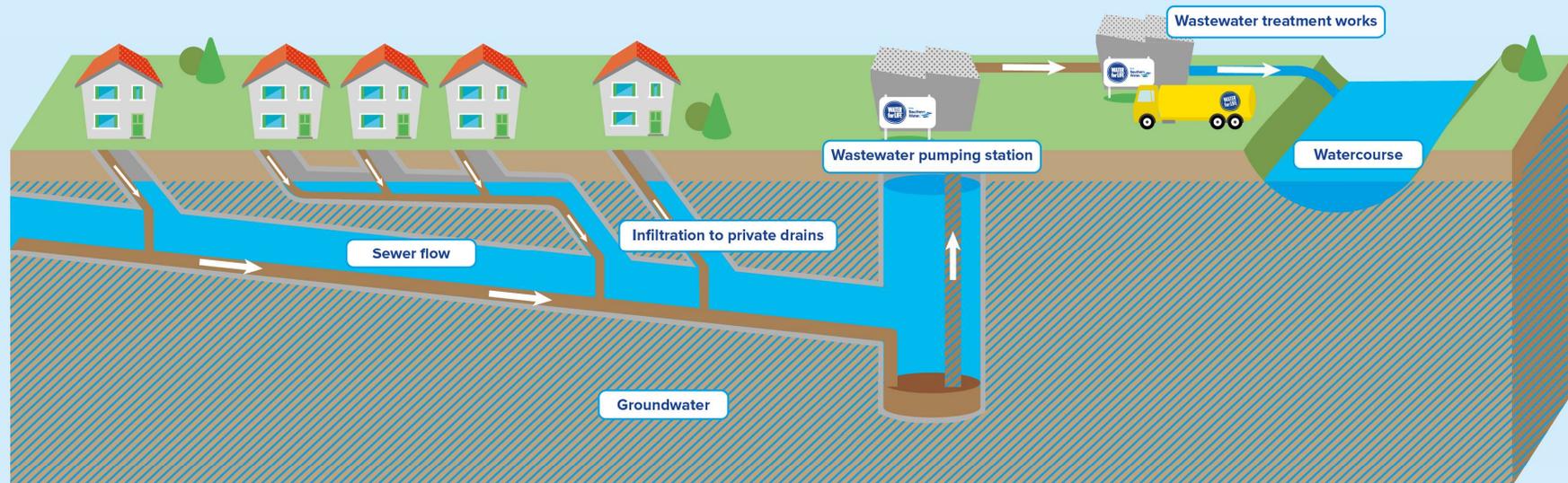
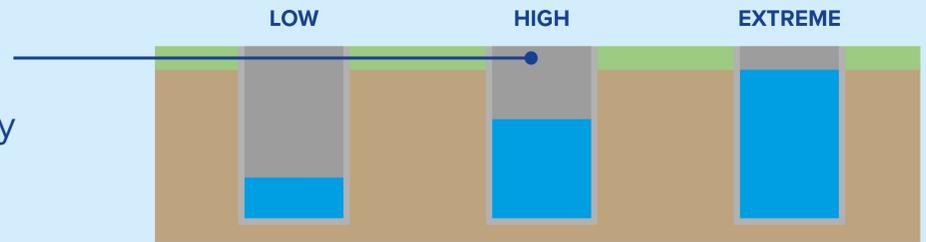
Coordination of  
site activities



**In low groundwater conditions**  
pumping stations convey the foul flow  
and a small amount of infiltration to the  
wastewater treatment works.

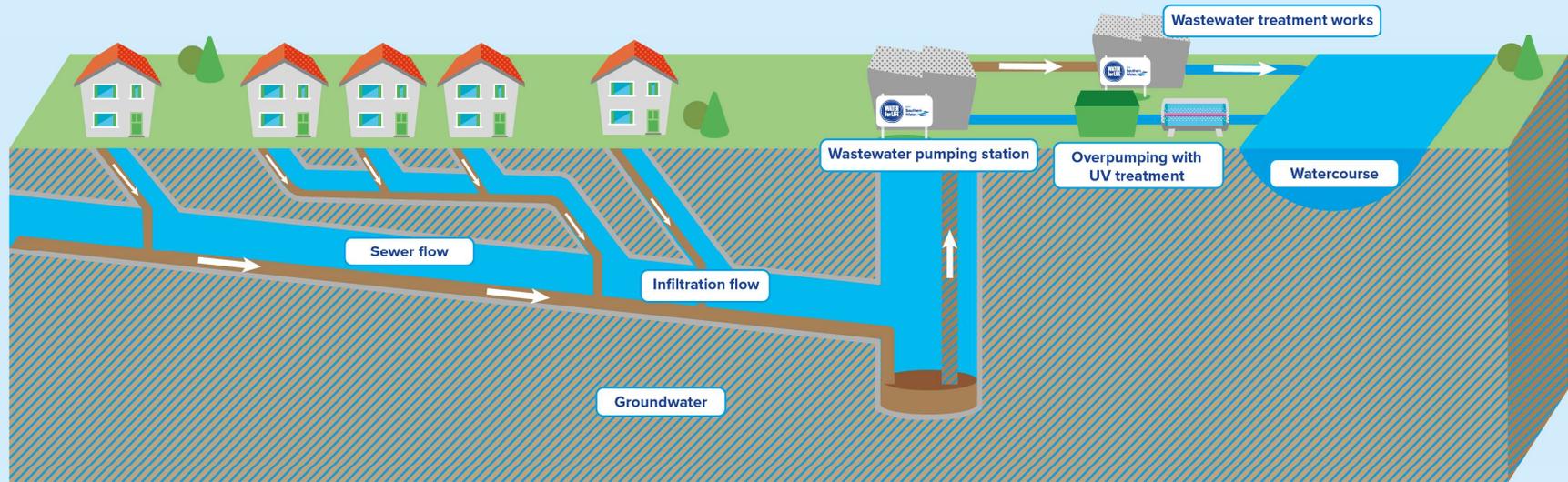
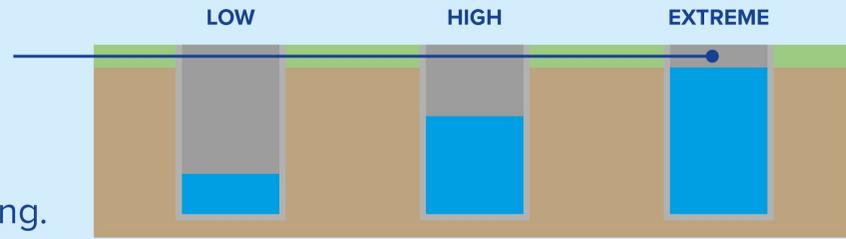


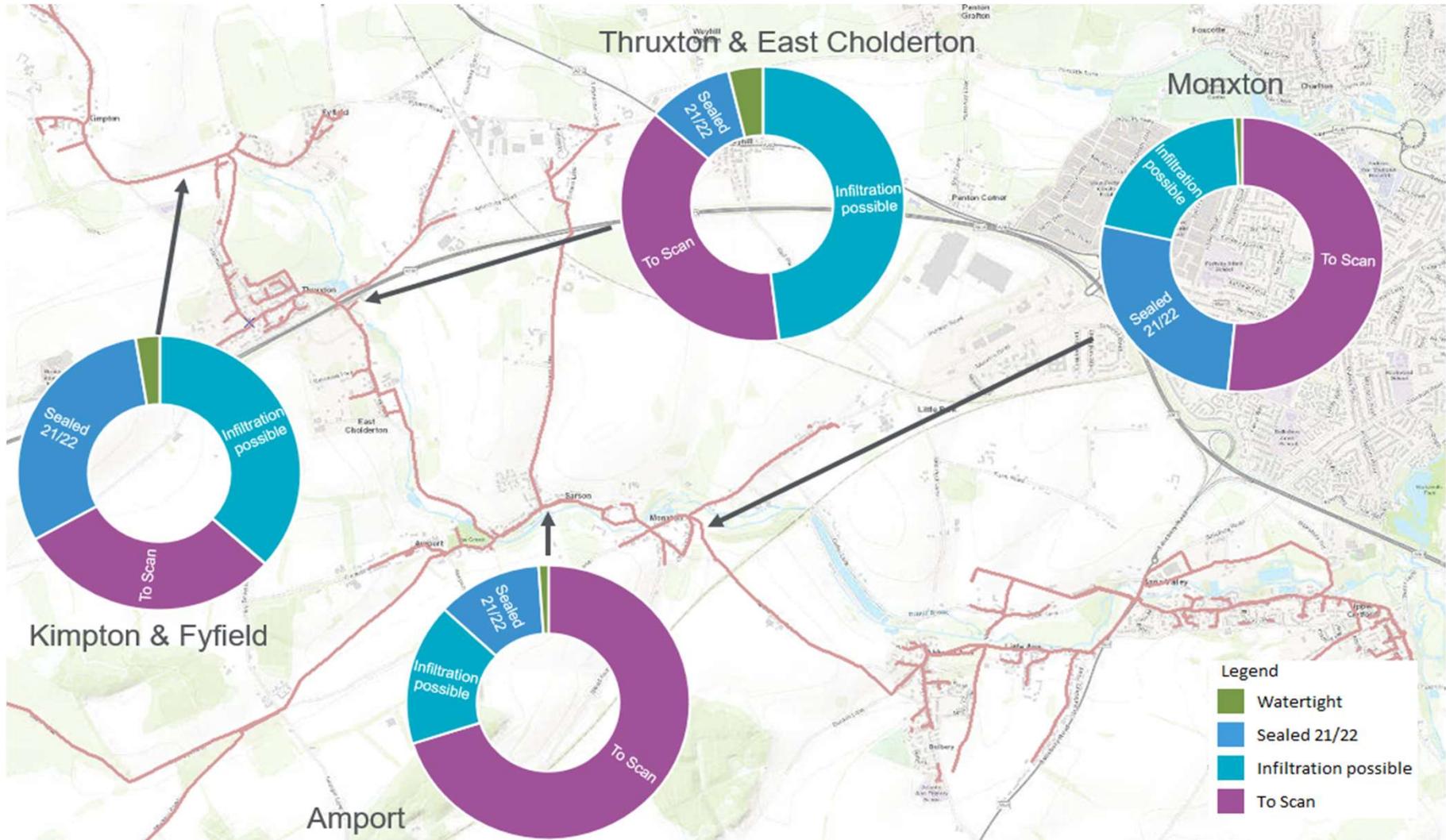
**In high groundwater conditions** the flow is largely infiltration. At these levels the pumps are working continuously and tankers are required to keep the sewerage system functioning.



**In extreme groundwater conditions**

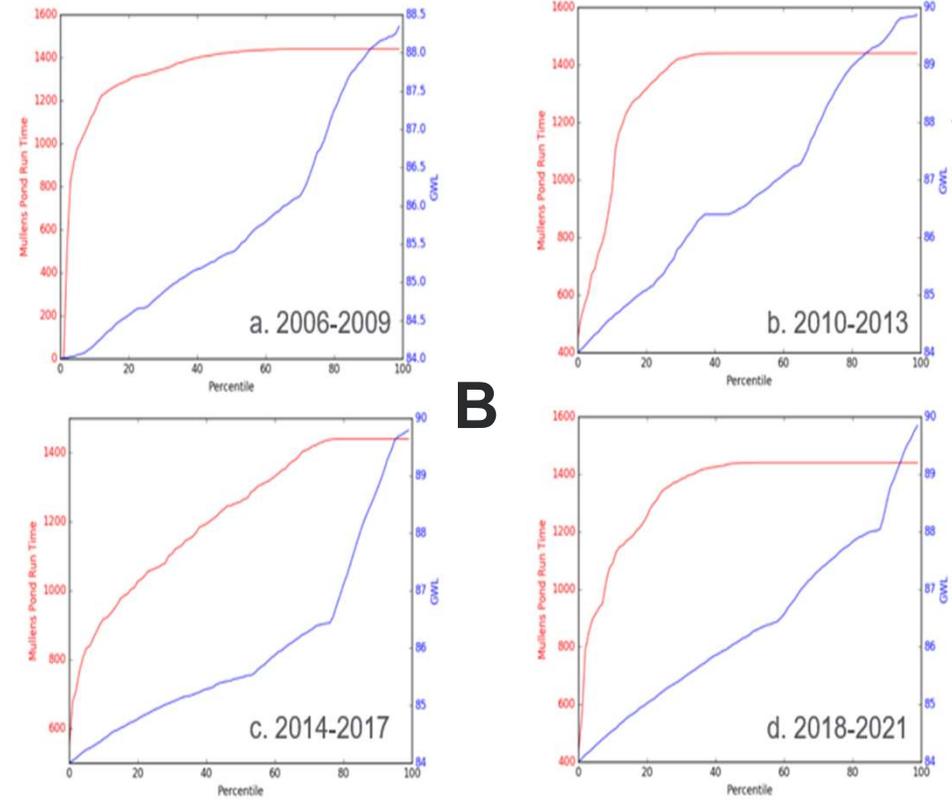
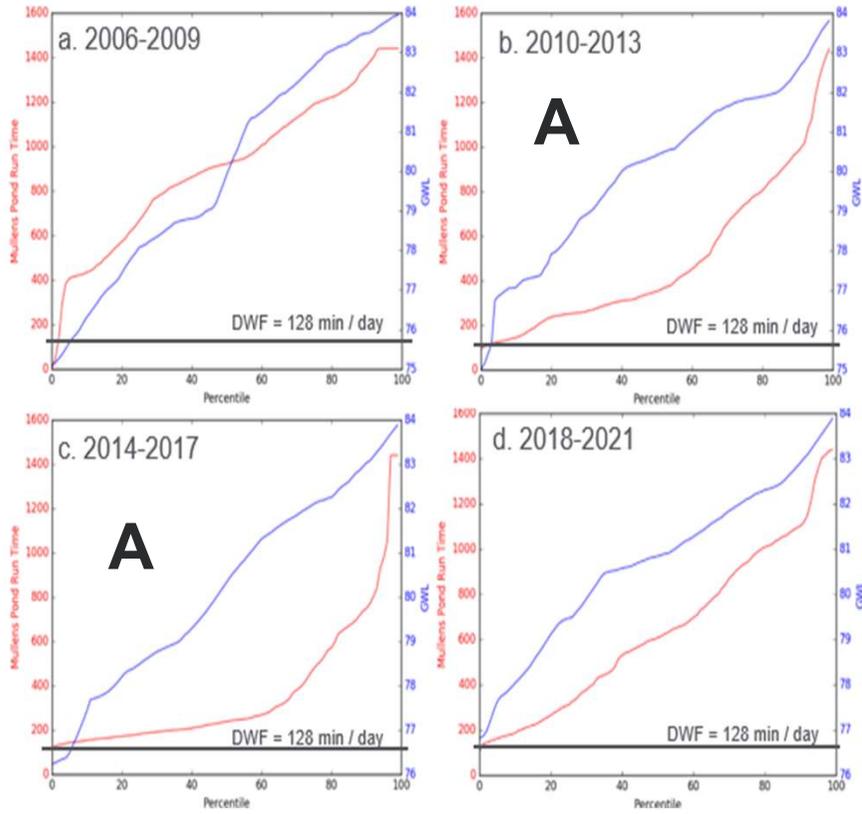
infiltration gets into the network through all pipes and inundates the pumping stations. Overpumping arrangements with UV treatment are used to prevent property flooding.





# Mullens Pond <84mAOD

# Mullens Pond >84mAOD



# Problem statement and Objective

## Problem

- There is significant groundwater infiltration into the sewerage network.
- This causes the infrastructure to become overwhelmed increasing the risk of flooding and pollution.

## Objective

Our objective is to find a sustainable, permanent solution that:

- Protects the environment
- Stops the disruption and inconvenience to the community

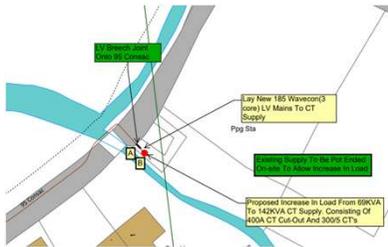


# UV Over-pumping



The commissioned UV over-pumping equipment has been left in place at Mullens Pond. This is to minimize disturbance and local impact associated with its installation and de-installation

The power upgrade at Mullens Pond has been completed meaning no need for noisy diesel generators onsite or light pollution.



Work is ongoing with the Power upgrade at Stanbury Road Fyfield WPS

**Treated wastewater released here**

**WATER for LIFE**

A controlled release of treated wastewater is made here to protect local homes. As a precaution, keep clear and wash your hands should you come into contact with the water. The Environment Agency and local Environmental Health are aware.

If you have any questions, please call 0330 303 0368 and quote:

southernwater.co.uk

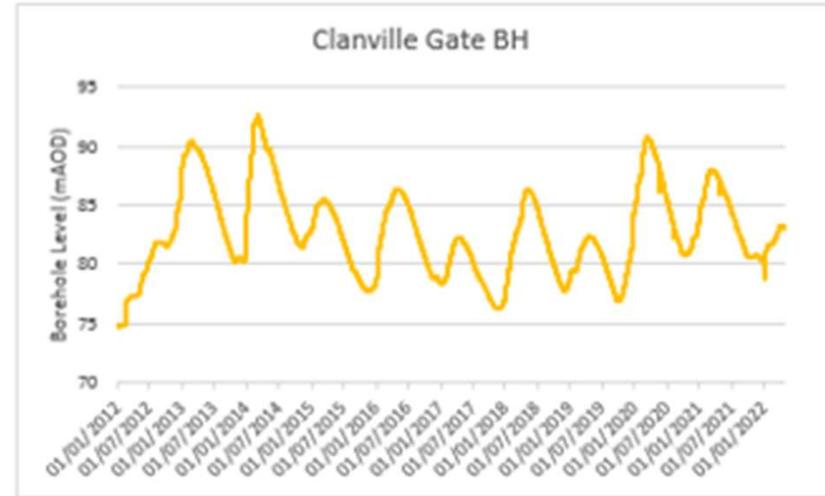
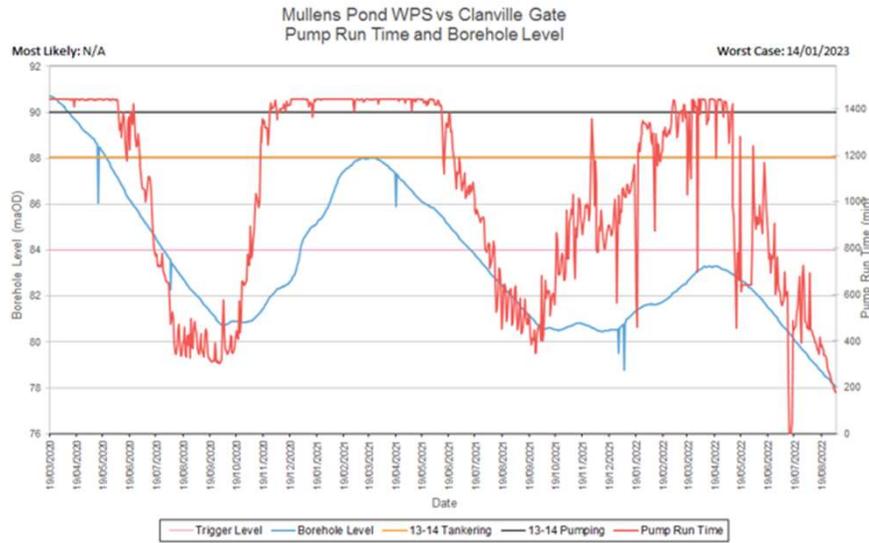
from Southern Water

After reaching agreement on the wording, a quote is being provided so we can order a batch of signs before Winter



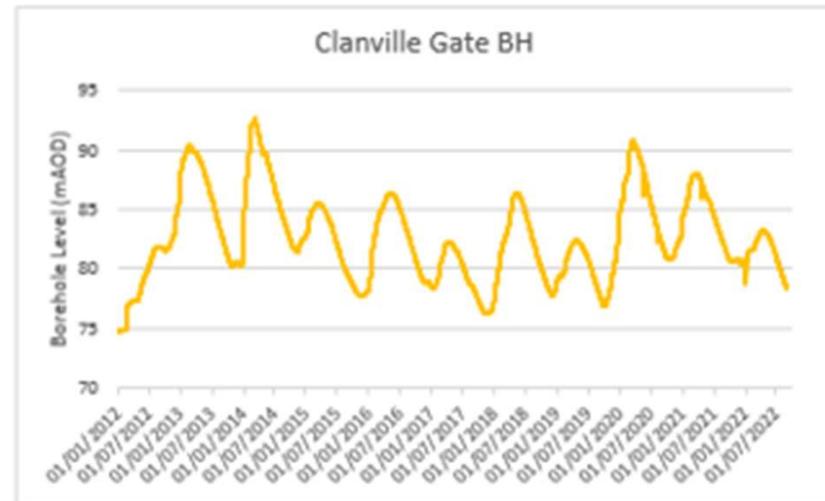
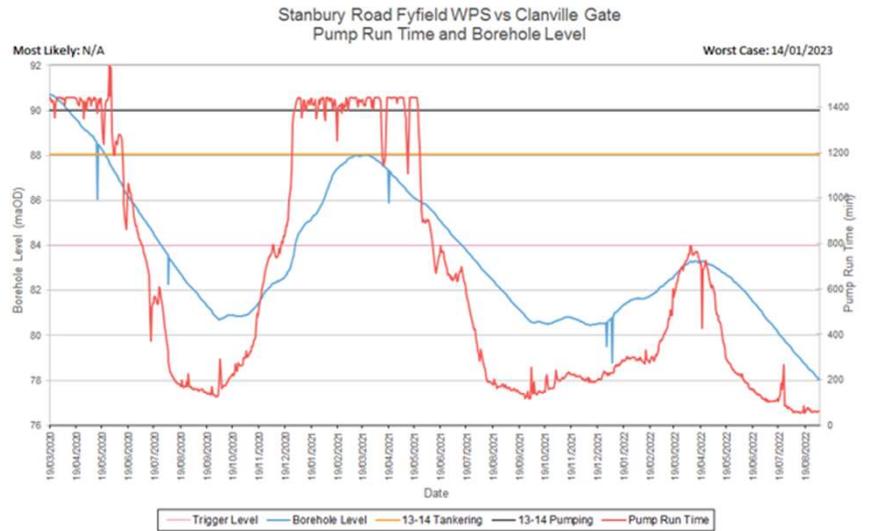
# Monitoring

May '22



September '22

## Mullens Pond WPS pump run vs Borehole



## Stanbury Road Fyfield WPS pump run vs Borehole



# WPS pre-season Health Checks



**Pre season pumping station Health Checks** are completed in the Month of October as a collaborative piece of work between the Operations and Asset Maintenance team. Planning is currently underway.

This covers over 32 pumping stations in groundwater affected catchments, including:

- Stanbury Road Fyfield WPS
- Mullens Pond East Cholderton WPS
- Furzedown Lane Amport WPS
- Monxton WPS
- Little Ann Bridge WPS
- Royal Oak Goodworth Clatford WPS
- Goodworth Clatford South WPS
- Goodworth Clatford Station WPS

# Baseline Ecology Survey & Sampling



## Ecology

- Spring invertebrate & Diatom study scheduled for completion before end of May
- Autumn invertebrate & Diatom study and Macrophyte study scheduled for completion on September 2<sup>nd</sup>
- Awaiting confirmation of results which will be shared with PPF and the EA as soon as they are available.

## Sampling

- Janet has requested a sample from the Brook at Amport to give an idea of water quality at this time, this is being organised

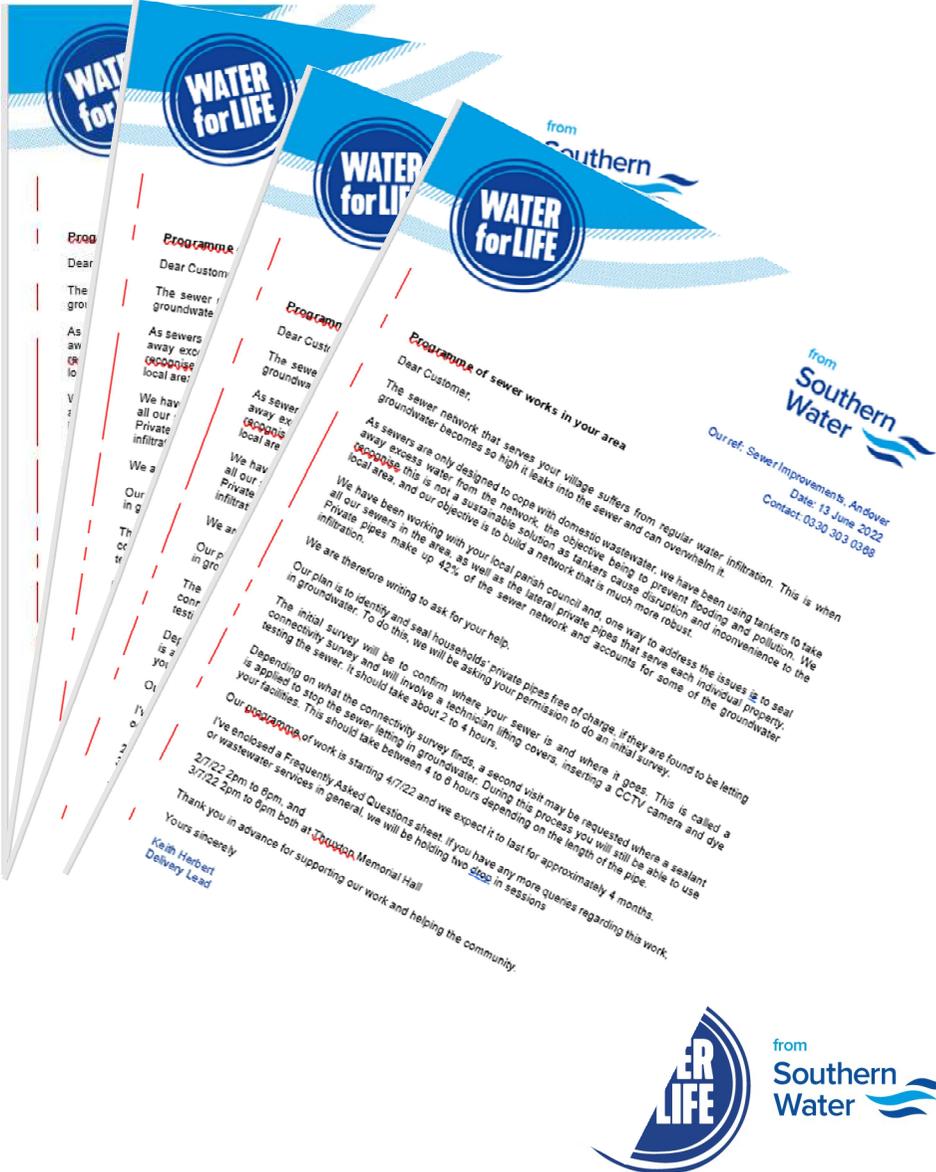


# Pathfinder works

Private lateral sealing	Phase 4 relining	Nature based solution
Communications to customers complete Update required	Electroscanning works have started	Provisional design complete
Connectivity surveys $\frac{3}{4}$ complete	Public sewer relining works awaiting programme	Engagement with Environment Agency
Tubogel sealing – programme started	Monitoring works to start in autumn	Meeting with landowners
Monitoring works planned to start autumn		

# Private Lateral Sealing Works

- Mail merged 559 properties
- Ran two drop-in sessions
- Went door to door prior to undertaking any works





## Connectivity update

Village	Status	Total	Complete	Unable to Complete	Remaining
Fyfield	Complete	154	141	13	0
Kimpton	Complete	111	96	15	0
Thrupton	In progress	230	71	7	152
Weyhill	Not started	5	0	0	5
East Cholderton	Complete	64	60	4	0
		564	368	39	157

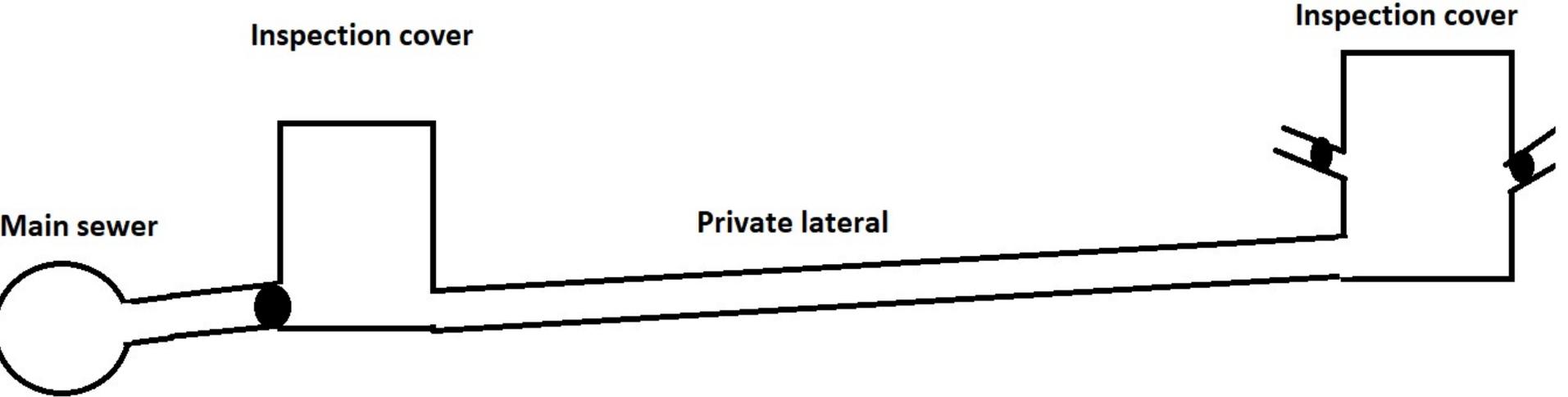
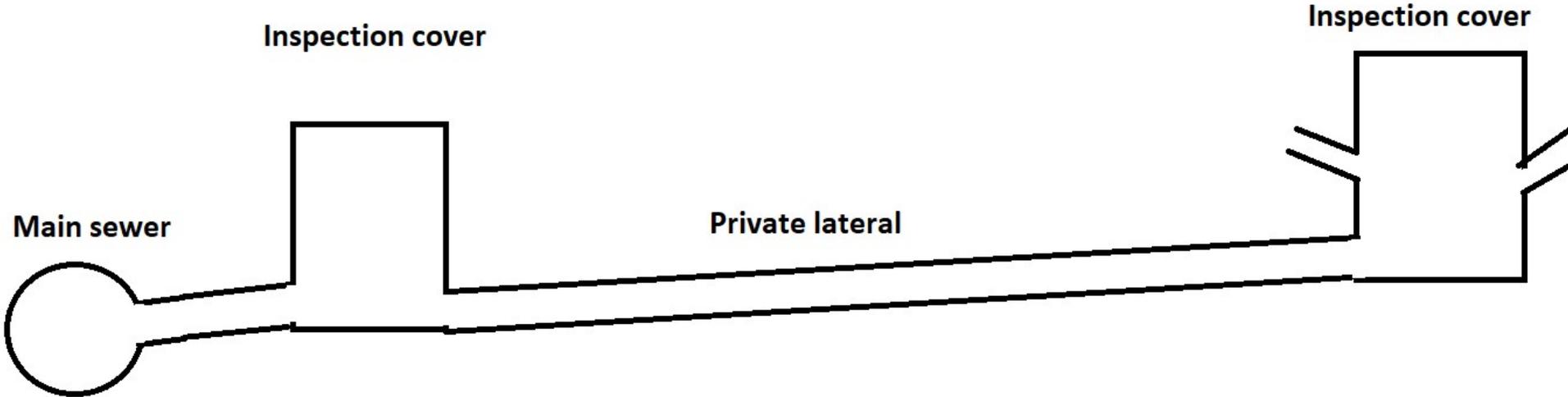
90% completion rate



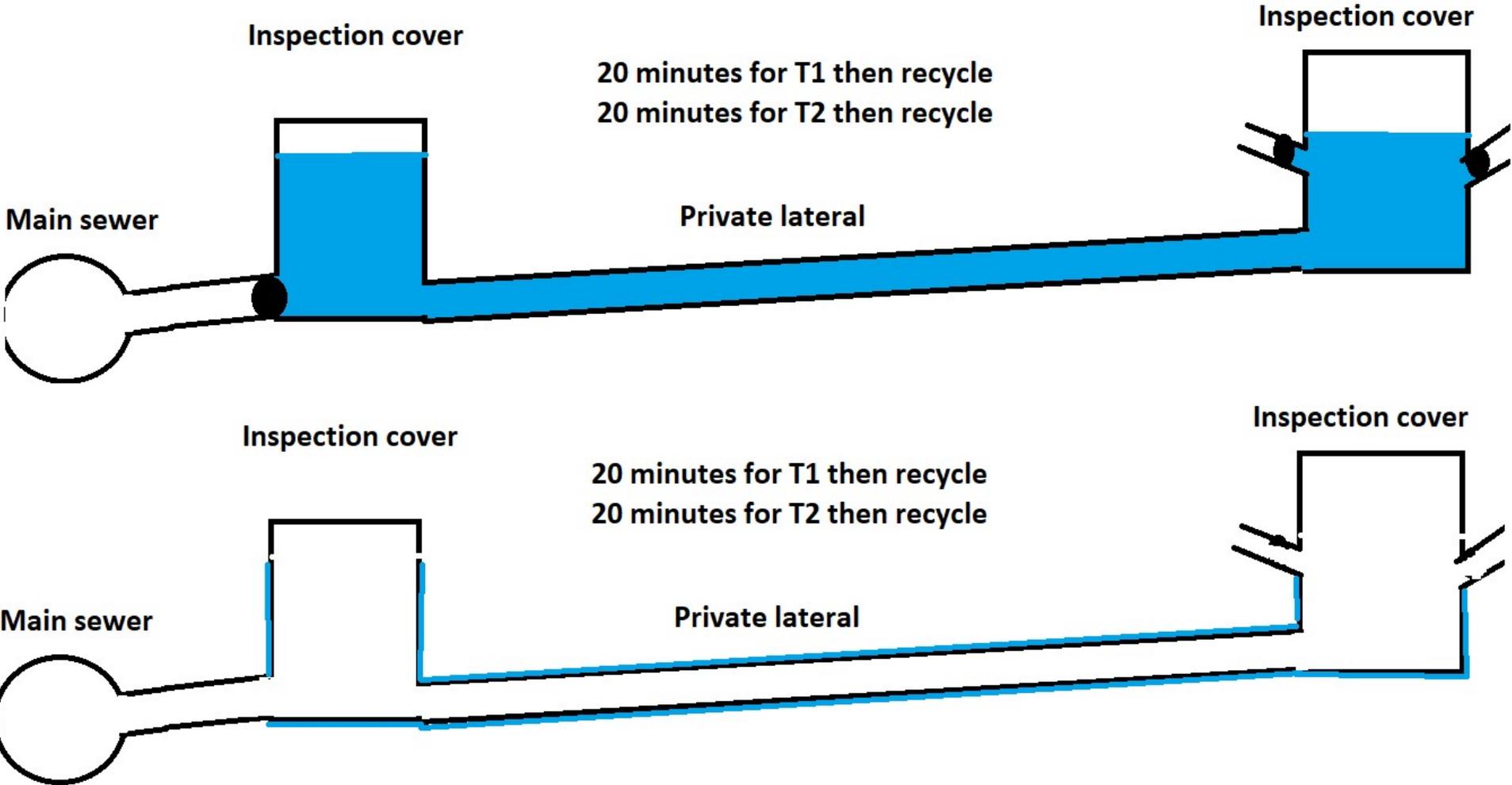
# Tubogel



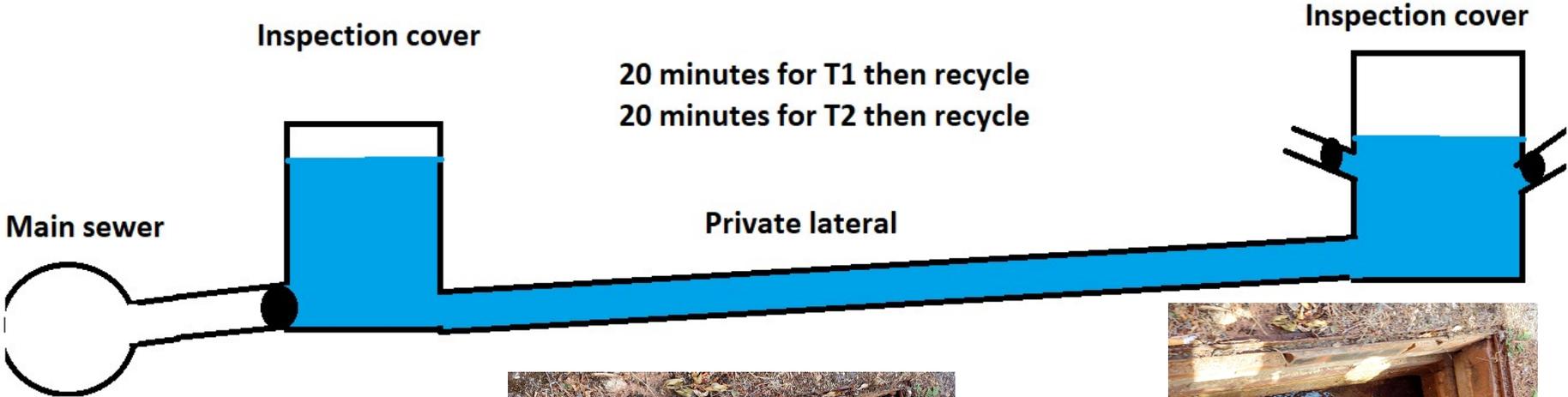
# Tubogel Sealing Works



# Tubogel Sealing Works



# Tubogel Sealing Works



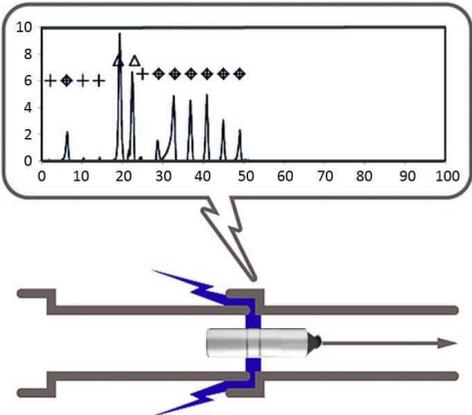
# Tubogel Sealing Works

## Next steps

- Mail merge all customers to thank them and detail progress
- Continue with programme
- Monitor impact

# Phase 4 relining

- Electro scanning



Row Labels	Length	Pipes	Status	Length Scanned
Abbotts Ann	2,462.84	64	In Progress	
Amport	1,937.77	31	In Progress	
Anna Valley	897.14	30	Complete	764.82
East Cholderton	495.58	10	In Progress	
Fyfield	235.74	6		
Little Ann	3,384.86	58		
Monxton	281.22	8	Complete	220.65
Red Post Bridge	804.77	16		
Thruxton	43.41	2	Complete	0
Weyhill	3,826.79	54		
	14,370.10	279		985.47



# Monitoring

- 26 temperature sensors have been ordered.
- 30 sewer level monitors being currently being in the area specifically for groundwater. More for blockage work
- Up to 10 monitoring boreholes to be sunk.



# Nature Based Solutions Shrewton and Langford

- 28 groundwater catchments in Wessex Water region
- Similar problems and challenges to PP although biological treatment in place.
- Demonstrate exhaustion in catchment approaches
- Demonstrate effective treatment
- Our work with EA and WW



# Actions update

No.	Action	Who	By When	Status
QSW/PPF 17.5.1	Expand Problem Statements (Slide 4) to include disruption to residents. PPF to suggest new wording <b>JC to provide draft wording for PPF to review</b>	JC/JW	<b>6/09/22</b>	Open
<b>QSW/PPF 17.5.3</b>	Share SW sample data on water quality tests with the PPF EA are custodians of water quality data. <b>Due in the autumn SW to advise when.</b>	FC	<b>6/09/22</b>	Open
<b>QSW/PPF 17.5.4</b>	SW to hold Baseline Ecology Meeting with the EA <b>Date of meeting to be communicated to WHB.</b>	<b>FC</b>	<b>9/09/22</b>	Open
QSW/PPF 17.5.5	SW Ecology <u>survey</u> ; investigate developing links with local schools SUDS grant being applied for. Timescales for this? Grant approved. Funds available Sep/Oct 22 with 80% required to be spent by Apr 23 (dependent on connectivity survey results)	KH/JW	Linked to USW/PP F 15.6.2	Open
QSW/PPF 17.5.8	What else can be done to alleviate the “ragging” of valves at Mill Lane in Abbots Ann?	KH	<b>06/09/22</b>	Open

# AOB and date of next meeting