## SW/PPF Quarterly Meeting



## Agenda

- Welcome & Intro from Keith Herbert Pathfinder Lead and Chris Harris, PPPF Chair
- Re-brief of objectives to new members (Keith Herbert, SW Pathfinder Lead)
- Flow restoration update (Floyd Cooper SW Wastewater Networks)
- Groundwater strategy and preparedness (FC)
- Mill Lane Valve update (FC/SH)
- Layby update (FC/SH)
- Treatment updates (FC)
- Monitoring update and state of the nation (KH)
- Programme update (KH)
  - Tubogel
  - Manhole sealing
  - public sealing
- Results, next steps and AMP8 (KH)
- Ecology survey and sampling results (FC/JW)
- HCC road safety strategy and preparedness (Sarah Reglif, HCC Flood & Water Management)
- EA Issues? (Keith Broomfield, EA)
- Wider Pan Parish Communications (led by PPPF)
- Outstanding actions
- AOB





Protect the environment and stop the disruption

- Targeting monitoring programme
- Investment into private and public apparatus
- Responsive customer service
- Community engagement and communications



#### Pan Parish – Operational Playbook DRAFT

Pan Parish – Operational playbook1
1 Background2
1.1 Pan Parish Catchment2
1.1.1 Stanbury Road Fyfield WPS sub-catchment2
1.1.2 Mullens Pond East Cholderton WPS sub- catchment
1.1.3 Furzedown Lane Amport WPS3
1.1.4 Monxton WPS5
1.1.5 Little Ann Bridge WPS6
1.1.6 Anna Valley WPS7
1.1.7 Longstock Road Upper Clatford WPS8
1.2 Infiltration Reduction Plan (IRP)9
1.3 Trigger levels for IRP deployment10
1.4 Rehabilitation work
2 Pre-Season Activities
2.1 Groundwater Level Monitoring13
2.1.1 MHs that will require manual checks:14
Kimpton
Kimpton
Monxton
Monxton
Monxton
Monxton Mullens Pond East Cholderton Manor Farm, Abbots Ann
Monxton
Monxton Mullens Pond East Cholderton Manor Farm, Abbots Ann 2.3 WPS Health Checks 2.3 EA Contact 16
Monxton Mullens Pond East Cholderton Manor Farm, Abbots Ann 2.3 WPS Health Checks 2.3 EA Contact 2.4 Maintenance Scheduled Tasks (MSTs) 17
Monxton Mullens Pond East Cholderton Manor Farm, Abbots Ann 2.3 WPS Health Checks 2.3 EA Contact 2.4 Maintenance Scheduled Tasks (MSTs) 2.4.1 Kimpton and Fylield. 2.4.2 Grateley Village WPS 18 2.4.3 Monxton WPS 18
Monxton Mullens Pond East Cholderton Manor Farm, Abbots Ann 2.3 WPS Health Checks 3.3 EA Contact 2.4 Maintenance Scheduled Tasks (MSTs) 17 2.4.1 Kimpton and Fyfield 17 2.4.2 Grateley Village WPS 18
Monxton Mullens Pond East Cholderton Manor Farm, Abbots Ann 2.3 WPS Health Checks 2.3 EA Contact 2.4 Maintenance Scheduled Tasks (MSTs) 2.4.1 Kimpton and Fylield. 2.4.2 Grateley Village WPS 18 2.4.3 Monxton WPS 18
Monxton   Mullens Pond East Cholderton   Manor Farm, Abbots Ann   2.3 WPS Health Checks   16   2.3 EA Contact   2.4 Maintenance Scheduled Tasks (MSTs)   17   2.4.1 Kimpton and Fyfield   17   2.4.2 Grateley Village WPS   18   2.4.3 Monxton WPS   18   2.4.4 Little Ann Bridge WPS   19   2.4.5 Anna Valley WPS   20   3 Proactive Groundwater Monitoring   21
Monxton   Mullens Pond East Cholderton   Manor Farm, Abbots Ann   2.3 WPS Health Checks   2.3 EA Contact   16   2.4 Maintenance Scheduled Tasks (MSTs)   17   2.4.1 Kimpton and Fyfield   17   2.4.2 Grateley Village WPS   18   2.4.3 Monxton WPS   18   2.4.5 Anna Valley WPS   20
Monxton   Mullens Pond East Cholderton   Manor Farm, Abbots Ann   2.3 WPS Health Checks   16   2.3 EA Contact   2.4 Maintenance Scheduled Tasks (MSTs)   17   2.4.1 Kimpton and Fyfield   17   2.4.2 Grateley Village WPS   18   2.4.3 Monxton WPS   18   2.4.4 Little Ann Bridge WPS   19   2.4.5 Anna Valley WPS   20   3 Proactive Groundwater Monitoring   21

.. 14

... 14 ... 15 ... 15

4.1 Early Warning Signs24
4.2 Bunding
5 Tankering Plan
5.1 Background
5.2 Kimpton Tankering
Equipment required for tankering at Kimpton25
5.3 Mullens Pond East Cholderton Tankering
Equipment required for tankering at Mullens Pond East Cholderton WPS29
5.4 Manor Farm Abbots Ann Tankering
Equipment required for tankering at Manor Farm Abbots Ann
5.5 Little Ann Bridge WPS Tankering32
Equipment required for tankering at Little Ann Bridge WPS
Supervisor requirements
5.6 Disposal Location
Equipment required for disposal setup
6 Alternative Mitigation Plan
6.1 Overpumping
6.1.1 Kimpton Green
6.1.2 Stanbury Road Fyfield WPS
6.1.3 Mullens Pond East Cholderton WPS
6.1.4 Monxton WPS
6.2 Groundwater Treatment
6.2.1 The Green, Kimpton
Equipment requirements for mobile treatment:
6.3 Environmental Monitoring40
6.4 Environmental Reporting41
7 Stakeholder Requirements
Appendix
WPS Health Check Checklist
Steps leading to IRP deployment 46

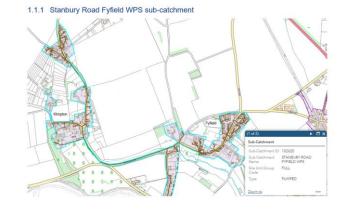


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#### 1 Background

#### 1.1 Pan Parish Catchment

The Pan Parish refers to a collection of villages, consisting of Kimpton, Fyfield, Thruxton, East Cholderton, Quarley, Amport, Monxton, Abbots Ann and Clatford within the catchment of Fullerton. The sever catchment of these areas serves a population of 6,300. The public sever network of these sub-catchments is 64,340m in length, with flows within the Pan Parish catchment starting in Kimpton, gravity-fed to Stanbury Rd Fyfield WPS, Mullens Pond East Cholderton WPS, to Furzedown Lane Amport WPS, to Monxton WPS, to Little Ann Bridge WPS and then to the terminal pumping station of Anton Lane WPS, ending up at Fullerton WWFS, to Monxton WPS, the full severe the severe severe the severe severe the severe severe the severe sever



#### 2.1.1 MHs that will require manual checks:

#### Kimpton

5



MH1701 – W3W ///tiger.strapping.look MH1601 – W3W ///clips.copy.huddling MH2601 (SLM) – W3W ///universes.marsh.offline MH1501 – W3W //wand.instead.disarmed

#### 2.3 WPS Health Checks

Pre-groundwater season health checks will be raised by the Proactive Control team from the end of August planned in by P&S (Planning and Scheduling) into the weekly operators plans throughout September and October with a deadline of 31st October. The affected WPS in the catchment are as below:

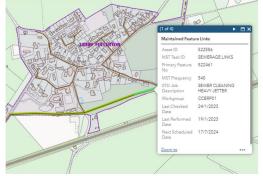
- Stanbury Road Fyfield WPS (H21)
- Mullens Pond East Cholderton WPS (H21)
- Quarley WPS (H21)
- Grateley Station WPS (H21)
- Grateley Village WPS (H21)
- Monxton WPS (H21)
- Cattle Lane Abbots Ann WPS (H21)
- Little Ann Bridge WPS (H21)
- Anton Lane WPS (H21)
- Anna Valley WPS (H21)
- Royal Oak Goodworth Clatford WPS (H21)
- Church Lane Goodworth Clatford WPS (H21)
- Goodworth Clatford South WPS (H21)
- Goodworth Clatford Station WPS (H21)





#### 2.4.2 Grateley Village WPS





#### 3.2 Sewer Level Monitor (SLM) Monitoring

SLMs in the Pan Parish area which should be checked due to having history with MH levels going high as either a result of GW infiltration/rainfall or hydraulic overload:

MH9402 - ///headers.warmers.greeting MH7601 - ///operating.steers.blotchy MH1702/1704 - ///picked.spider.adults - ///slide.chats.bench MH3602 - ///worth cages.vivid MH7601 - ///swift.copies.transfers considerable risk of ingress and infiltration MH1901 - ///noises.assist.chop - med risk MH1903 - ///gevice.trim.shirts

#### Equipment required for tankering at Kimpton

- S100 Super silent Betsy pump
- 4-inch Bauer pipework
- 1-6 x 4k tankers
- Valve snifter to allow suction for tanker
- Fuel cube
- Heras fencing
- Acoustic soundproofing
- Traffic management as Deacon Rd will require closing to allow movement of tankers

Initial order requirements as above, however in response to flow levels, additional units may need to be requested with the original form updated.

The loading points for the tankers are: Kimpton Village Green - MH1701 – W3W ///tiger.strapping.look







#### 4.1 Anti-flood devices

Below is a list of anti-flood devices (AFD's) within the Pan Parish area which have been installed in response to customers historically being flooded as a result of groundwater infiltration:



#### Figure 3.2.1 - Live SLMs in Funtington



#### 7 Stakeholder Requirements

Southern Water to maintain a collaborative relationship with stakeholders within the Bosham area through proactive communication and regular updates.

#### 7.1 Parish Council

The Parish Council must be kept updated of all tankering and flow management and investigation activity. The Hampshire Groundwater team will engage with the Stakeholder Manager through defined weekly call structure to send out proactive comms.

Funtington Parish Council - Parish Councillors - Funtington Parish Council (funtingtonpc.org)

#### 7.2 Local Council

The Groundwater Stakeholder Manager will also seek to proactively communicate with the local council - Chichester City Council – The Parish Council for the City of Chichester

#### 7.3 Environmental Agency

There will be weekly calls set up with the Environment Agency. These will be a platform for any escalations that need to be communicated and to provide updates.

#### WPS Health Check Checklist

Site name:				ompleted:
		Work	Photo	
	All OK?	Required	Taken	
Checks	(Y/N)	(Y/N)	(Y/N)	Comments (Follow on raised/work carried out)
NON RETURN VALVES: Inspect NRV's for				Photo Mandatory
Rag/Grit build up, check operation of				
NRV's (Are they Opening/Closing), Check				
pipework is clear				
				Photo Mandatory
GATE VALVES: Check gate valves are				
fully open, check gate valves are				
operational (Do they open & isolate ok?)				
AIR RELEASE VALVES: Strip & clear		1		Photo Mandatory
ARV's, check pipework is clear into ARV				
& check pipework is clear from ARV to				
wetwell				
SOCLA BALLS: Inspect/repice SOCLA				Photo Mandatory
balls within ARV				1
HIGH LEVEL FLOAT (CLEAN?/E2E				Photo Mandatory
TEST)Carry out an E2E test, clean		1	1	
float(s), check float(s) is clear of		1	1	
obstruction				
LEVEL CONTROL: Check Militronics				Photo Mandatory
head/float(s) are clean & operating		1	1	1
pumps are set at parameters		1	1	1
			<u> </u>	
DUTY SELECTOR SWITCH OPERATION:				
Do the pumps switch over when Pump				
failed/isolated/not available				
LIFT/INSPECT PUMPS: Check for			-	Photo Mandatory
blockage, Impeller/wear plate condition				
checked, any sign of leaks? (Mech				
seal/volute/inspection covers)				
PUMP GREASING/LUBRICATION:			-	
Grease pumps, change auto greasers, check grease points				
START/STOP LEVELS MONITORED			-	
(CORRECT LEVELS?): Check if pumps are				
pumping the level down too low, are		1	1	
pumps starting at a high level backing		1	1	1
up into network?			-	Photo Mandatory
WET WELL CONDITION (CLEAN		1	1	Comparison of the second se
REQUIRED?): Scrape wet well of any fat		1	1	
buildup, is an MTS clean required?				Photo Mandatory
				Photo Mandatory
PIPEWORK CONDITION: Check inlet,		1	1	1
delivery & rising main pipework for				
leaks, corrosion and general condition				Photo Mandatory
				Photo Mandatory
DRY WELL CONDITION: Check sump		1	1	1
pump operation, clear water and debris		1	1	
from dry well to avoid access issues				
				Photo Mandatory
STORM TANK? (EMPTY/CLEAN?) Check		1	1	
storm tank is empty and clear/clean if		1	1	1
required (IF APPLICABLE)				
		I –	I –	
FLOW METER? MEETING PERMIT				
REQUIREMENT? The flowmeter		1	1	1
reading? Is the PFR flow within Permit?				1
				ALL CHECKS CARRED OUT SENT TO FPM



## Summer readiness

<mark>Ops Ar</mark> ≁ <sup>†</sup>	Catchment •	WPS / Netv 🔻	Site	T,	Location 💌	/// What3words	v	Action 🔹	F	RAG 🔻	Due date	• C	<mark>)wner</mark> 🔻
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Onsite CCTV			30/09/20	)24 F	C
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Critcal spares - Pump					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS	1	Wet well	III salaried. unleashed. expressed		Critical spares impeller					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Flow Meter					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	///salaried.unleashed.expressed		Skim loading installation					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS	1	Wet well	III salaried. unleashed. expressed		Welfare assessment	٢	NA			
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Welfare upgrade	1	NA			
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Customer assessment					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS	1	Wet well	III salaried. unleashed. expressed		Customer measures					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		TM/Access/Parking assessment					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	///salaried.unleashed.expressed		TM/Access/Parking measures					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS	1	Wet well	III salaried. unleashed. expressed		Site safety/security assessment					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Pre season health check					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	///salaried.unleashed.expressed		Health check actions					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS	1	Wet well	///salaried.un/eashed.expressed		Pre-season wet well clean					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS		Wet well	III salaried. unleashed. expressed		Perm pump upgrade					
H21	Pan Parish	WPS	Furzedown Lane Amport WPS	1	Wet well	///salaried.unleashed.expressed		Temp pump upgrade	ſ	NA			
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Skim loading installation					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Welfare assessment					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Temp welfare plan					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Customer Assessment					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Customer plan					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		TM/Access/Parking assessment					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		TM/Access/Parking plan					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Site safety/security assessment					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Pre-season jetting defined					
H21	Pan Parish	Network	Manor Farm Abbots Ann		MH 0800	abolish.stubbed.increment		Pre-season jetting completed					-



## Updates from 03 May 2024 Meeting

- Overpumping Regulatory Requirement & Triggers FC
- Road Reparations
  - Mullens Pond Awaiting Planning Permission.
  - Furzedown Lane Work Order Raised to "Make Good."
- Automation of Mill Lane Valve
  - Currently in the Scope and Quote phase. Potential suppliers engaged.
  - The system is intended to be battery powered and mains if available.
  - Full remote control and powering.
- Manor Farm Signage. In Progress with GM.





## Foundry Farm Project

- 22nd April 21 June 24
- Sludge Removal (300 600mm)
- Full Collaboration with the EA
- Fish Recovery and Daily Sampling



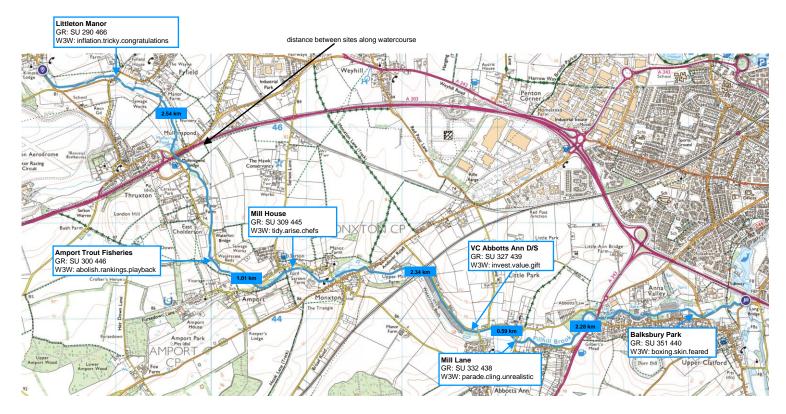




# Ecology survey and sampling results update

Pillhill Brook Association June 2024

## 6 Monitoring Sites

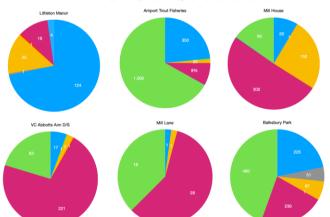


## May Results

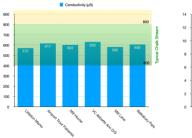
#### Invertebrate Counts for May 2024

Invertebrate Score	Littleton Manor	Amport Trout Fisheries	Mill House	VC Abbotts Ann D/S	Mill Lane	<b>Balksbury Park</b>
Cased Caddis	124	350	50	17	1	225
Caseless Caddis	0	5	0	1	0	0
Mayfly (Ephemeridea)	1	0	1	0	0	51
Blue-winged Olive (Ephemerellidae)	25	20	150	7	1	67
Flat-bodied Stone clinger (Heptageniidae)	1	0	0	1	0	1
Olive (Baetidae)	18	120	300	221	28	230
Stoneflies (Plecoptera)	4	1	1	0	0	0
Freshwater shrimp (Gammaridae)	0	1000	90	63	18	460





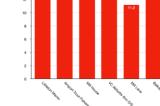
Water Quality Results for May 2024								
Site	Conductivity (µS)	Temp (°C)	Phosphate (ppm)	Nitrate (ppm)	Ammonia (ppm)			
Littleton Manor	572	15.7	0.16	5	0.00			
Amport Trout Fisheries	617	14.8	0.1	5	0.00			
Mill House	603	15.2	0.00	5	0.00			
VC Abbotts Ann D/S	630	12.8	0.03	5	0.00			
MII Lane	582	11.2	0.03	10	0.00			
Balksbury Park	606	14.5	0.08	5	0.00			



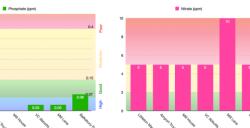
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0.4

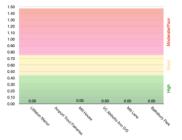
0.35 0.3 0.25 0.2 0.15 0.15 0.1



Temp (°C)







## What next?

- Establish Pillhill Brook ecological baseline
  - monthly monitor invertebrate abundance and water quality along length of brook
- Gather other ecological data for comparison
  - Wild Fish SmartRivers data
  - ► SW biannual ecology data
  - ► EA data
- Build plan to care for and protect what we have

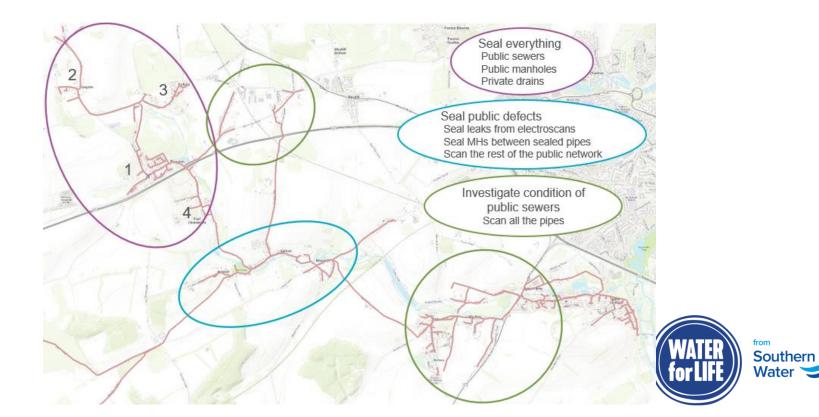
## **Accelerated Funding**

Option	Number of	Outcome Annual spills reduction	Output				
(CapEx - £m)	overflows in scope	(base year average of 2020 & 2021)	Non- permeable Area Managed (hectares)	Number of wetlands (#)	Sewer relining (km)		
£35	30	420	50 - 80	4	5 - 7		



## **Objectives**

Pan Parish Forum. Protect the Environment and stop the disruption.



#### Seal Everything

*Thruxton, Kimpton, Fyfield & East Cholderton* **Aim:** no tankering from these villages

#### Scope:

Seal leaky public sewers – 4.5km Seal public manholes – 134 Seal private drains – 559 properties (~8.4km) Scan remaining public sewers – 1.9km

Aspiration: completion by Nov '22

Expectation: Seal Thruxton and Kimpton by Nov '22, follow with Fyfield & E Cholderton by Nov '23

#### Seal Public Defects

Amport & Monxton Aim: no infiltration into the public network. Learn from "seal everything" villages and monitoring.

#### Scope:

Seal leaky public sewers – 1.4km Seal public manholes – 65 Scan remaining public sewers – 3.2km Monitor impact of upstream work Plan future private drain sealing if required

Aspiration: sealing completed by Nov '22

Expectation: TBC

#### Investigate Everything

Weyhill, Abbotts Ann & Little Ann Aim: understand how much infiltration can occur into the public network. Learn from monitoring and other villages.

#### Scope:

Scan public sewers – 10.4km

Aspiration: scans completed by Nov '22

**Expectation:** scans carried out between May '23 and Nov '23 (TBC)

#### Monitoring

All villages

Aim: Improve understanding local groundwater levels. Improve understanding on where infiltration is entering the network. Improve speed of reactive maintenance. Evidence suitability of sealing technique.

Scope: Observation boreholes and improved groundwater model Temperature sensing AMP cycle electro scan programme

Aspiration: Monitoring in place for Nov '22.

## **Groundwater Levels**

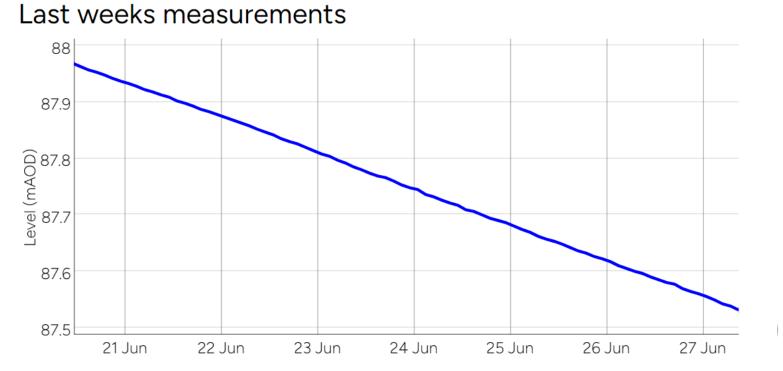
Monthly GW levels (m AOD or Above Sea Level)

Week	Amport Rainfall (mm)	Clanville Gate* (101.55 AOD)	Change	High View Kimpton	Change	Stanbury Road (76.63 m AOD)	Change	Mullens Pond (69.35 m AOD)	Change	Monxton (62.52 m AOD)	Change
6/1/23	22.0	81.07	1	82.71	1	-	-	-	-	-	-
3/2/23	88	85.55	1	85.30	1	76.11	-	69.03	-	61.80	-
3/3/23	6.2	85.45	Ŧ	84.88	Ļ	76.04	Ļ	68.96	+	61.68	Ļ
7/4/23	97.0	86.31	1	85.75	1	76.11	1	69.06	1	61.74	1
5/5/23	59.2	86.87	1	85.88	1	76.14	1	69.07	1	61.81	1
2/6/23	33.0	86.97	1	85.50	Ļ	76.14	=	69.02	<b>↓</b>	61.75	Ļ
7/7/23	42.3	85.46	Ŧ	84.00	Ļ	76.10	Ļ	68.93	<b>↓</b>	61.60	Ļ
4/8/23		84.58	🖡	83.50		76.05	Ļ	68.89	Ļ	61.57	+
1/9/23	40	83.66	+	83.83	1	76.00	<b>†</b>	68.87	<b>†</b>	61.56	1
6/10/23	90.5	82.68	Ŧ	82.73	+	75.94	t	-	-	61.65	1
3/11/23	212.6	84.27		83.85	t	76.21		-	-	61.94	
1/12/23	84.0	86.77	1	86.00	t	76.22	1	-	-	61.92	Ŧ
5/1/24	190	90.03	1	87.25	1	76.34	1	-	-	61.98	1
								Haydown Fm (75.4 m AOD)			
2/2/24	42	90.68	Ŧ	86.88	Ļ	76.33	1	74.12	Ť	61.89	t
1/3/23	128	91.05	1	87.21	1	76.33	1	74.13	1	61.94	1
5/4/24	149.2	91.33	1	87.40	1	76.36	1	74.19	1	62.00	1
3/5/24	50.5	90.59	Ļ	86.83	Ļ	76.27	Ļ	74.10	Ļ	61.91	Ļ
7/6/24	49.5	88.74	t	86.03	<b>†</b>	76.16	Ŧ	73.80	1	61.75	Ŧ
14/6/24	4.0	88.34	Ŧ	85.81	t	76.15	t	73.74	t	61.74	t
21/6/24	7.0	87.92	Ļ	85.54	Ļ	76.13	Ŧ	73.68	Ť	61.71	Ť

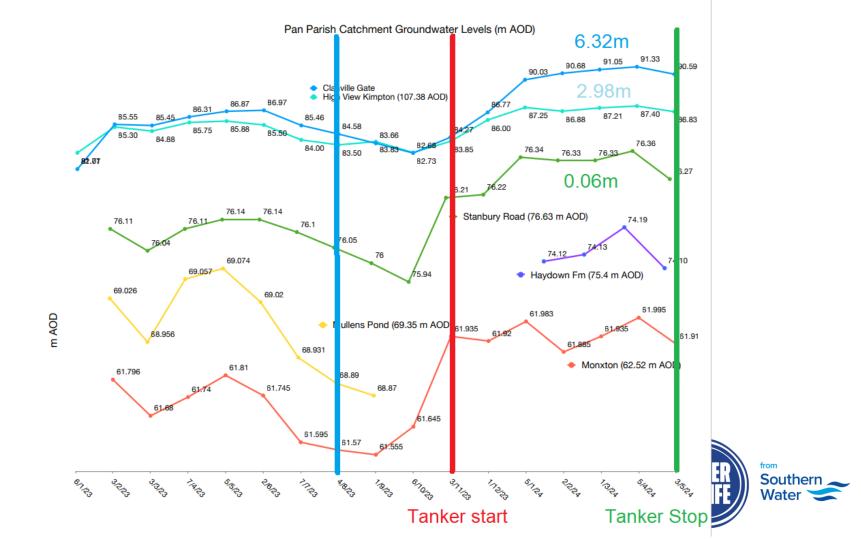


## Clanville Gate – Trigger 84m

Current Level: 87.53 m



Southern Water

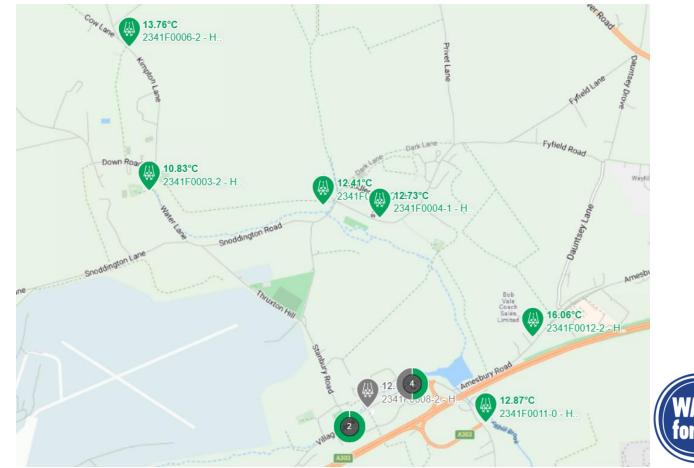


Trend View

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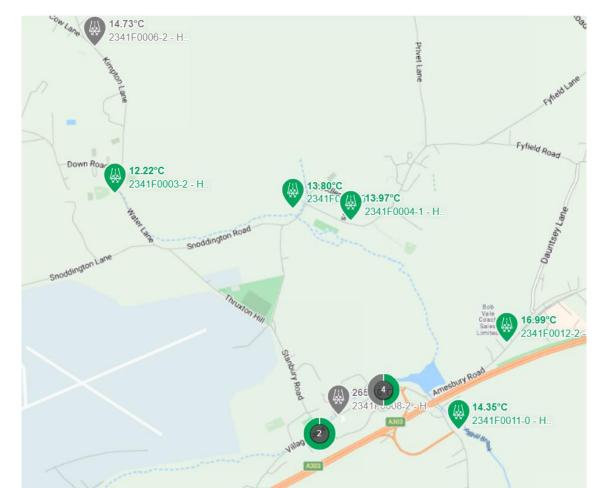
## Temperature sensors north 3.5.24





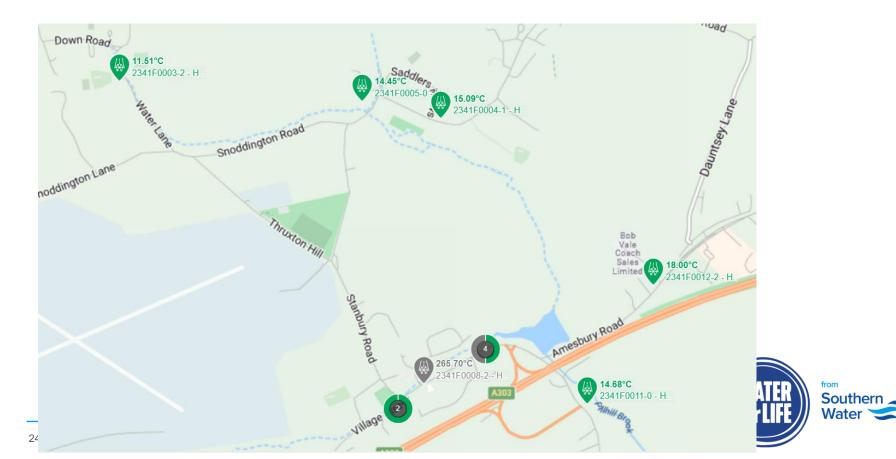


## Temperature sensors north 7.6.24

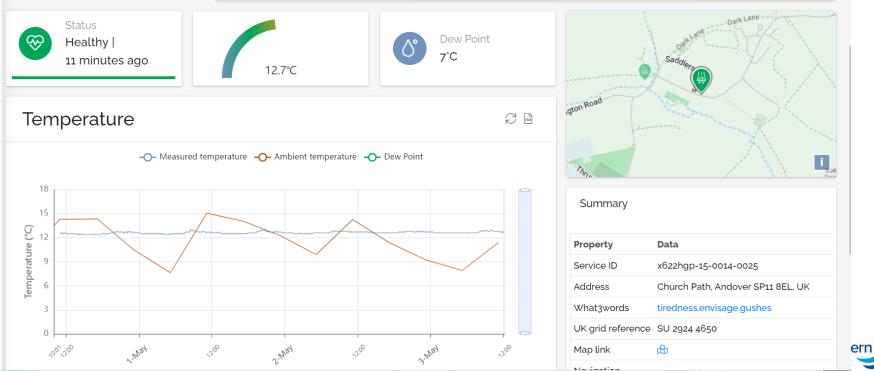




## 27.6.24

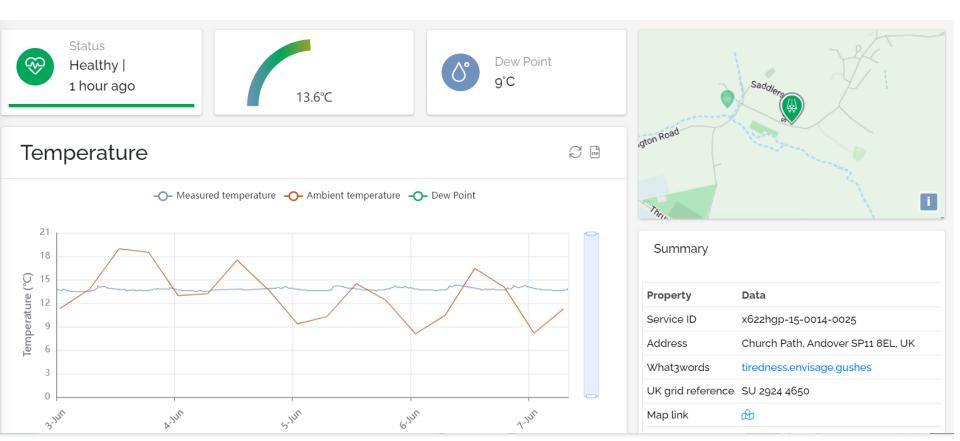




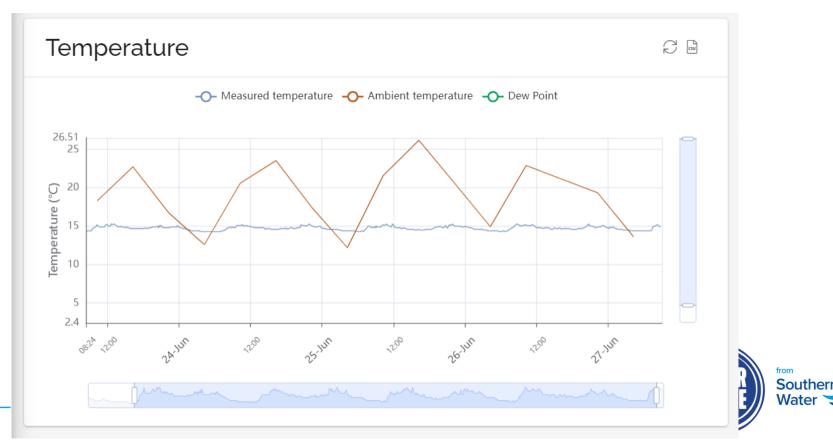




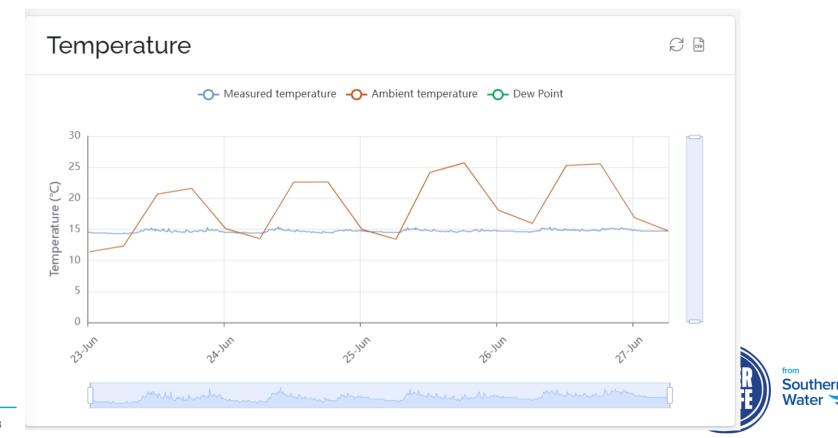




## Fyfield 26.6.24

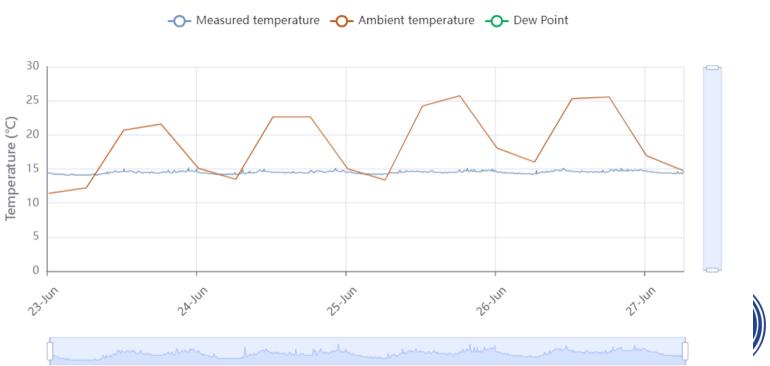


## **Mullens Pond**



## Monxton

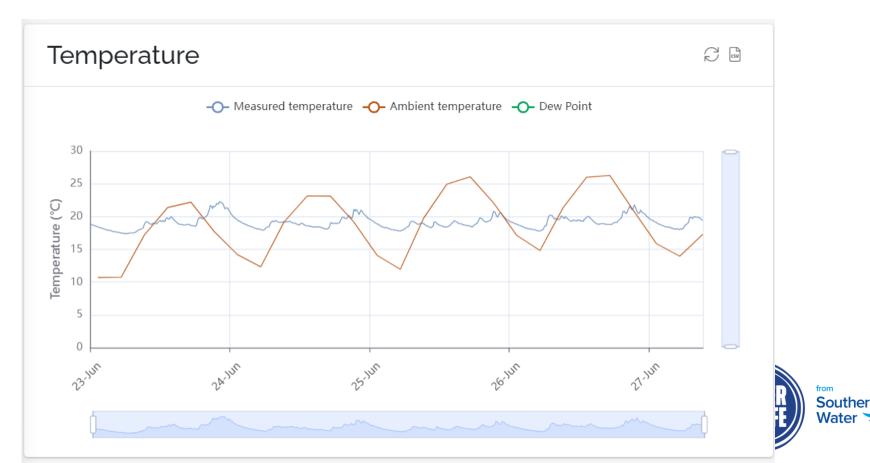
#### Temperature



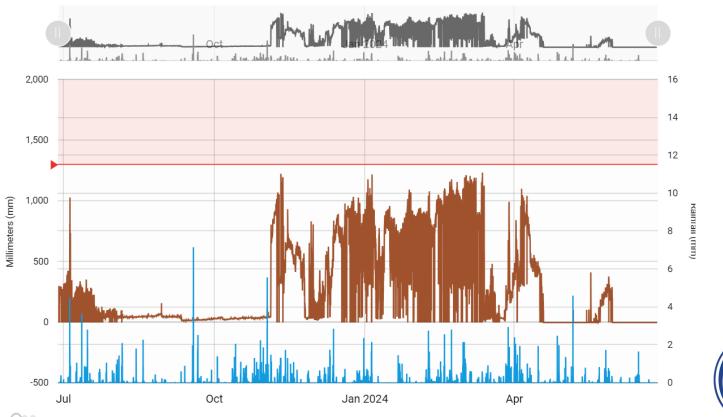
Southern Water

C S

## **Control in Quarley**

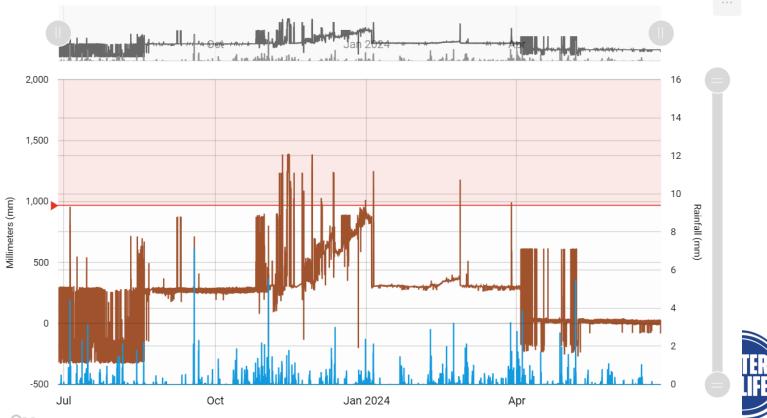


## Sewer level monitor data Kimpton





## Thruxton

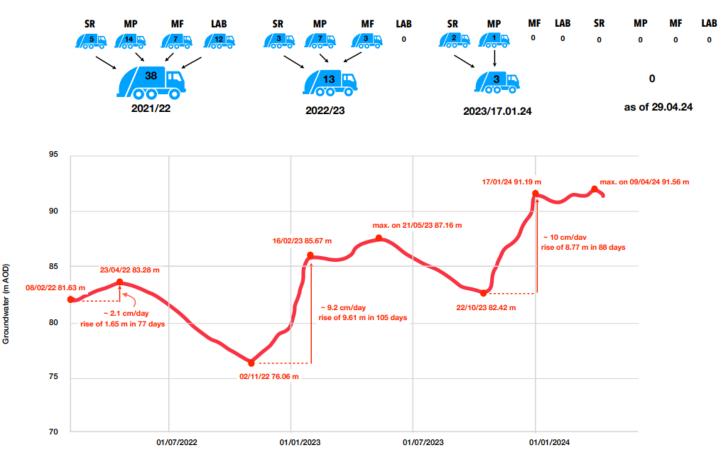


Southern Water

 $\sum$ 

	Area	Action	How many	Specifics	When	RA		
		Tubogel	Kimpton Fyfield E. Chold Thruxton Total	97/113 props 795/955m 128/146 props 1027/1187m 19/21 props 196/206m 57/178 props 439/1501m <b>301/458 props 2457/3849m – 112 props left</b>				
	Pan Parish	Public sealing	Kimpton Fyfield Thruxton E. Chold Weyhill Monxton	570m 632m 1125m 39m 0 175m				
		Inspection cover sealing	120/134					
		GW level peaked at 91.5. Tankers stopped at 90.6 Vs trigger of 84m Total 4998m of sealing works. Ofwat target 5-7km						

#### Pillhill Pan Parish 3 yr Reduction in Tanker Deployment



#### **Tankering Sites**

- SR Stanbury Road WPS
- MP Mullens Pond WPS
- MF Manor Farm Bell Valve

LAB - Little Ann Bridge WPS

Groundwater levels at Clanville Gate (101.55 m AOD)

## What Happens Now?

- We share our learnings and change best practice
- Prepare a business case, financial, customer and environmental
- Monitor, learn and react
- Handover day-to-day responsibilities
- Wait for 84mAOD winter 2024.
- Thank the people who have supported us.



## PR 24 and AMP 8

- Purdah and election
- Revised timescale
- Our plans
- How PPPF has informed these plans

