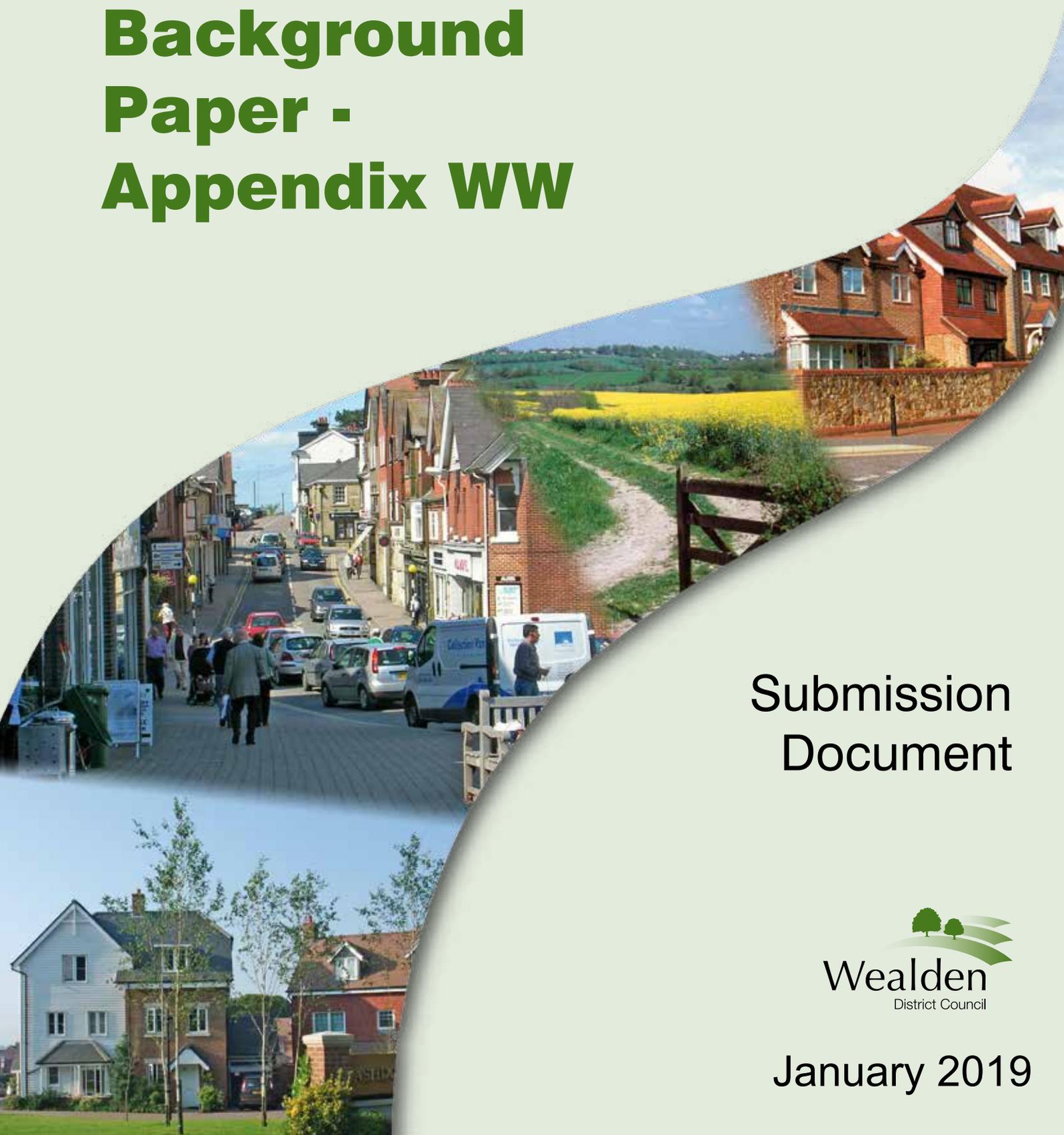
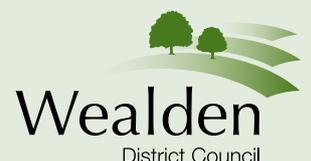


Wealden Local Plan

Duty to Cooperate Background Paper - Appendix WW



Submission
Document



January 2019

How to Contact Us

Planning Policy

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Office hours Monday, Tuesday, Thursday, Friday 8.30am to 5.00pm and Wednesday 9.00am to 5.00pm

You may also visit the offices Monday to Friday, to view other Local Plan documents.

A copy of the Wealden Local Plan and associated documents can be downloaded from the Planning Policy pages of the Wealden website, www.wealden.gov.uk/planningpolicy or scan the QR code below with your smart phone.



If you, or somebody you know, would like the information contained in this document in large print, Braille, audio tape/ CD or in another language please contact Wealden District Council on 01323 443322 or info@wealden.gov.uk



Meeting with Southern Water

Tuesday 27th March 2018 10am at Wealden District Council

Present: [REDACTED], Southern Water ([REDACTED]) and [REDACTED] ([REDACTED]), Wealden District Council.

Notes: [REDACTED], Wealden District Council

Agenda

1. Introductions
2. Presentation from Southern Water; Building a resilient water future for the South East.
3. Questions from WDC in regards to preparing the Infrastructure Delivery Plan.
4. Concerns regarding the Pevensey levels and waste water works.
5. Any other business

Notes

<u>Agenda item</u>	<u>Notes</u>	WDC
1	[REDACTED], [REDACTED] ([REDACTED]) welcomed [REDACTED] ([REDACTED]) representing Southern Water to the meeting.	SW
2	SW [REDACTED] gave a short presentation on Southern Water's Business Plan (2010 – 2025) working in connection with South East Water. [REDACTED] advised they have 6 district plans which then are merged into one national plan. SW [REDACTED] advised there is significant growth within the South East region, and are working to enhance service to customers as well as improve water quality and discussed options of treating effluent in Peacehaven and recovering heat from Effluent water. SW [REDACTED] advised 92% of customers have water meters installed in their properties, and advised their target for this is 95%, so they are not far from the preferred target. [REDACTED] SW discussed pilot schemes in Easley and Northamptonshire to reduce water usage through appliances in the home and offering incentives for communities. SW [REDACTED] advised Southern Water are also in agreement of having more electric charging points within the district. SW [REDACTED] discussed current student university work in examining processes which will eliminate plastics from water – in particular the microfibers which are not caught by the screens. A further pilot discussed was the free refills of water initiative to be trialled with shops to use your own bottle of water to fill, cutting down on plastic use. SW [REDACTED] discussed an agreed permit with EA of 0.25 and a water level of 40cm is still protected.	

	SW	SW
3	WDC	<p>■ raised a question to ■ in regards to Wealden District Council's relationship with Eastbourne Borough Council in waste water treatment. ■ advised there are no cost gains or losses to developers to link to a choice sewage works, in instances where development needed to be connected to capacity of a waste treatment works further away for strategic planning reasons – Southern water will pay the cost. ■ SW advised they will always link to the closest sewerage so long as there is capacity within the district.</p> <p>SW ■ advised growth should go ahead from 2021/ 2022 and has advised the timeframe as not changed.</p>
4	WDC	<p>■ raised a concern regarding the Pevensey levels and waste water works.</p> <p>SW ■ discussed joint working with Natural England and the Environment</p> <p>SW ■ discussed a cap on development to allow for daily flow into Pevensey levels.</p>

Wastewater Management in Hailsham Meeting with Southern Water

Weds 29 August 2018

Minutes

1. Welcome / Apologies

Present:

Southern Water (SW)
[REDACTED]

Wealden District Council (WDC)
[REDACTED]

2. Update on Wealden Local Plan including timetable going forward ([REDACTED]) WDC

WDC [REDACTED] provided an update on the changes and timescales for the Local Plan.

Revision to Housing Numbers

Housing growth identified at 950 dwellings pa. Plan period 2013-2028.

Uplift to 14,250 dwellings which meets OAHN, also meets new NPPG methodology.

Now includes windfall allowance and recent completions, reintroducing some allocations.

Timescales

Representation period for Proposed Wealden Local Plan is 13 August – 8 October 2018. WDC looking to submit by the end of December to ensure we are examined on the previous version of NPPF (Deadline 24 January).

3. Update from Southern Water

General Update regarding Hailsham North and South WWTW

Phosphate trials are ongoing

EA – 0.25mg/l lowest permit for site, 0.1mg/l for favourable status

EA Have done modelling for Pevensey Levels based on 0.1 level

Trials are based on a tertiary treatment process which has been developed in America called Actiflo® which provides 0.1ml/g (above and beyond regulatory requirements)

Southern Water required to demonstrate to Natural England that the process works

EA and Natural England Permitting Team are developing an operating agreement, which is with EA for final amendments – final sign off expected in next couple of months

This should move constraint to any level of growth (including flow levels)

An issue remains upstream which may impact flows and additional testing/monitoring is being done to assess this.

Southern Water have worked hard to deal with misconnection issues upstream, including pipe repairs.

Tertiary treatment at both Hailsham WWTW is modular and will require additional tanks.

Timeframe for delivery – December 2021 for January Implementation
Hooe- Issues in relation to planning application at the WWTW are being resolved.

Issues regarding increase in Flows

WDC expressed concerns regarding increase in flows out of the WWTW into Pevensey Levels.

SW ■ explained that the Pevensey Levels were generally short/low on water levels, but there is more of an impact in wet weather. Most testing is undertaken on dry weather conditions.

Discussion regarding management of smaller scale infrastructure (sluice gates etc) – which may be the responsibility of the Internal Drainage Board.

SW ■ confirmed that EA Permits allow for the level of flows expected, but research required to confirm the responsibilities of the Internal Drainage Board.

4. Position Statement and Statement of Common Ground

WDC ■ requested Southern Water to provide an updated Position Statement on the Hailsham WWTW, so this could be reflected in the Council's Infrastructure Delivery Plan (IDP).

It was agreed that a Statement of Common Ground should be produced which will build on the position statement and that a further meeting should be organised including Natural England and the Environment Agency. This meeting and subsequent discussion would help formulate a Statement of Common Ground for all organisations/parties.

A further meeting could review the issues associated up stream.

Tentative date for next meeting: early October 2018

WDC

WDC

Action – ■ to discuss with ■ regarding housing data that could be made available to Southern Water – monitoring returns etc to assist with monitoring.
Key information required: Site location, coordinates, phasing.

WDC ■ mentioned that the Infrastructure Road Map could be used as a tool for Southern Water to monitor delivery and implementation of infrastructure - primarily to identify when housing and employment sites are likely to be delivered.

5. Other Issues/Comments

SW confirmed that development within Stone Cross & Pevensey/Westham area would connect to the Eastbourne network, and that numbers identified in Wealden Local Plan will be combined with Eastbourne when they undertake a review of their Local Plan.

SW ■ confirmed that since April 2018 Southern Water are now issuing a 'New Infrastructure Charge' which is a flat rate that a developer pays for any network reinforcement that may be required as part of new development.

WDC ■ mentioned that amendments could be made to policy in the Local Plan to support Southern Water's requirements including seeking early advice from Southern Water on site allocations and pre-application advice.

INFORMATION ON ACTIFLO®

ACTIFLO®: The state of the Art Clarification Process

ACTIFLO® is a high-rate and compact water clarification process in which raw water is flocculated with microsand and polymer in a Turbomix™ draft tube reactor. The microsand enhances the formation of robust flocs and acts as ballast, significantly increasing their settling velocities. The unique characteristics of the resulting microsand ballasted flocs allow for clarifier designs with very short hydraulic residence times, high rise rates and extremely compact system footprints that are up to 50 times smaller than other clarification processes of similar capacity.

- [Drinking water](#)
- [Municipal wastewater](#)
- [Industrial Water and Wastewater](#)

Drinking water

ACTIFLO® applies to surface, ground and karstic water for the production of the highest settled water quality.

It is ideally suited for the treatment of:

- Rapidly fluctuating raw water sources
- High turbidity river water or very low turbidity reservoir water
- Warm surface water or very low temperature spring run-off water (0°C)
- Brackish and/or seawater
- Filter backwash water for recycling or discharge

Thanks to the use of microsand, **ACTIFLO®** achieves better treatment performance than all existing clarification processes on the market, displaying consistent and up to > 99% removal efficiencies of:

- High or low turbidity, flocculable Natural Organic Matter (NOM) and Total Organic Carbon (TOC)
- Algae, particle counts, Crypto Oocysts, Giardia and other pathogens/parasites
- Iron, Manganese, Arsenic...

ACTIFLO® is particularly efficient in treating **algal bloom** and hence reducing taste & odor that are associated with algae.

It can also be used for the recovery and recycle of filter backwash water for the purpose of reducing water losses and associated operating costs while preserving water resources.

[Top of the page](#)

Municipal wastewater

ACTIFLO® can be used in all **municipal wastewater treatment applications**:

- **Primary Clarification:** Before Activated Sludge Basins (AS), Biological Aerated Filters (BAF) or Moving Bed Biological Reactors (MBBR)
- **Secondary Clarification:** After Activated Sludge whenever space is tight or not available for large footprint conventional secondary clarifiers, after MBBR or as secondary clarifier in **BIOACTIFLO®**
- **Tertiary Clarification:** For effluent polishing and phosphorus precipitation. With up to >95% removal of total phosphorus and up to >99% removal of total suspended solids, **ACTIFLO®** performance exceeds most water quality discharge or reuse standards
- **Stormwater/Combined or Sanitary Sewer Overflow Treatment (CSO/SSO):**
 - With its very short hydraulic residence time and quick treatment within few minutes, **ACTIFLO®** easily handles rapid raw water load and/or flow fluctuations.
 - It treats stormwater peak flows "online" as they occur with > 90% removal of total suspended solids and associated BOD & COD
 - Thanks to a solids pre-contact tank, **BIOACTIFLO®** treats CSOs according to US EPA discharge standards
 - Combined with downstream UV disinfection, **ACTIFLO®** treated effluents are compliant with most bathing and shellfish water directives.
- **Biofilter Backwash Water Treatment:** Due to **ACTIFLO®**'s very short hydraulic residence time, biological sludge is unlikely to go septic; it is clarified extremely efficiently, with superior removal levels as compared with flotation.
- **Treatment of Trickling Filter effluents,** in replacement of conventional clarifiers
- **Water Reuse for agricultural irrigation and/or aquifer recharge,** optionally in combination with further polishing with downstream Discfilters (Actiflo® Disc)

**Wastewater Management in Hailsham Meeting
with Southern Water and the Environment Agency**

Tues 16 October 2018

Minutes

1. Welcome / Apologies

Present:

Southern Water (SW)
[REDACTED]

Wealden District Council (WDC)
[REDACTED]

Environment Agency (EA)
[REDACTED]

Apologies:

[REDACTED] (Natural England)

2. Wealden Local Plan update and Purpose of Initial Meeting ([REDACTED]) WDC

Confirmation that a meeting was held on 29 August with Southern Water to discuss issues in relation to Hailsham WWTW and discharge out to the Pevensey Levels. Minutes of this meeting were circulated to all officers in the circulation list above to provide a context for this further meeting.

Representation period on the Proposed Submission Local Plan closed on Monday 8 October 2018. A significant amount of representations received, a number of which from both statutory and individual consultees, commented on Pevensey Levels flood risk and water quality issues, along with the capacity of the Hailsham Wastewater Treatment Works.

Two main issues arose from the initial meeting:

- High volumes of water and water levels in winter months;
- Smaller scale infrastructure impacts: pumps, sluice gates etc

3. Southern Water – Updated Wastewater Position Statement

SW [REDACTED] confirmed that the Position Statement (September 2018) was up to date and an Operating Agreement between Southern Water and the Environment Agency was in the final changes of being checked before being submitted.

All parties agreed to the production of an updated Position Statement/Statement of Common Ground to provide clarity for the Planning Inspector examining the Wealden Local Plan. EA [REDACTED] stated that the Position Statement could be used a starting point and could be updated to include information on the Operating Agreement and any other relevant information.

Natural England should be circulated the Position statement to provide their input where appropriate.

4. Discussion of Issues Downstream and the management of smaller scale Infrastructure

Issues regarding water quantity were confirmed and agreed in line with the Southern Water Position Statement. Whilst this does not create a constraint to growth, on the operation of the new technology, any development numbers above and beyond Local Plan housing figures would need to be considered and it could not be guaranteed that these could be accommodated through current approaches.

EA
WDC ■ highlighted the issue of water quantity in relation to potential flooding during winter months when water levels are higher. ■ confirmed that flood risk was not a major factor for consideration in issuing Permits for the WWTW and that Natural England were also consulted during the process.

Southern Water confirmed they would be able to quantify the level of increased flows to assist with information prepared for a Statement of Common Ground, as they have done this to assess impact on the WWTW.

EA
Questions were raised as to the smaller scale infrastructure, e.g. the 8 pumping stations that are located across the Pevensey Levels and the capability of them dealing with increased flows/water volume. The responsibility for the pumping station has been passed to the Internal Draining Board. ■ stated that the EA may have some historic information on these pumping stations and that Natural England may have information on the status, quality and age of these pumps.

EA ■ suggested possible tanking of water to hold back water to deal with potential flood risk. This was not a viable option for Southern Water and that other options such as pipes were not considered because of the significant cost.

EA confirmed that the flood risk to residential properties would be minimal as most of the area is within Flood Zone 2 and 3 anyways. There may be some risk to essential infrastructure which EA would look into based on flood mapping.

SW
WDC ■ questioned whether any increase in capacity to the WWTW would be subject to a planning application. ■ stated that he believed it was Permitted development and he would confirm this.

Issues Upstream

SW
SW
Further to the last meeting, ■ confirmed they are still assessing sampling data as to issues upstream and that this would be 2/3 months until completion. ■ confirmed that detailed work into misconnections in the Hailsham area was completed and has resolved the issues.

5. Actions

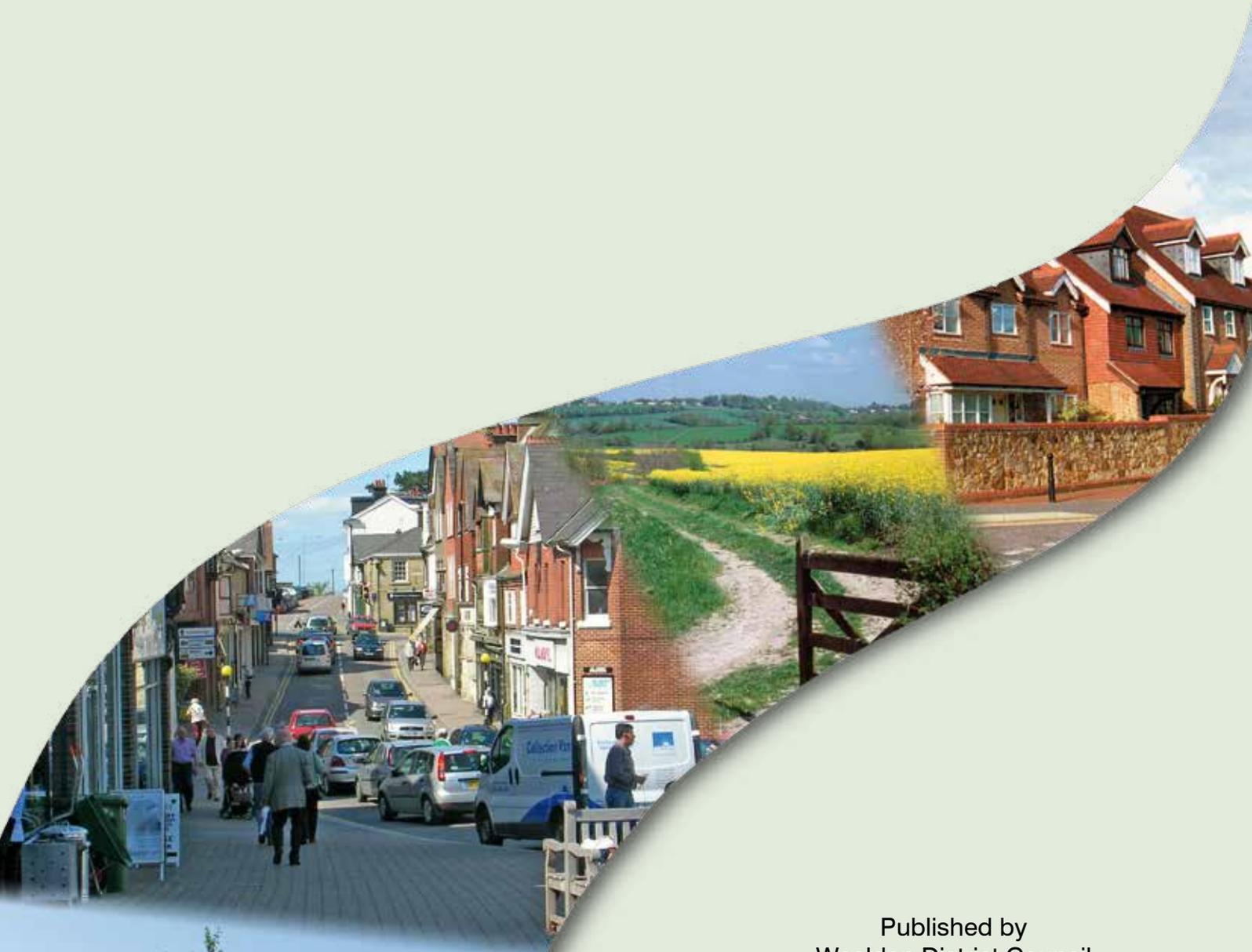
The following actions were agreed at the meeting:

- EA • ■ will ask EA colleagues on historical information with regards to infrastructure on the Pevensey Levels
- SW • ■ will confirm whether WWTW needs planning permission

- EA • [REDACTED] to contact Natural England to discuss information in relation to critical flows
 - EA to look at flood risk maps
 - Southern Water to assess
 - WDC to consider impacts regarding flood risk, in relation to representations received on the Local Plan
 - Environment Agency and Southern Water to add to the Position Statement, providing information on the Operating Agreement at the WWTW
- WDC • [REDACTED] to compile background information which could form the basis of a Statement of Common Ground
- WDC • [REDACTED] to send documentation on Pevensey Levels Water Level Management Plan to [REDACTED] and [REDACTED].
SW EA

6. Other Issues

WDC confirmed that they had received representations on the Wealden Local Plan from the Environment Agency and that these assisted with providing extra clarity.



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