



# Natural Flood Management Programme

## Sidbury Manor Estate & the River Sid catchment

George Cave & Simon Browning

27th March 2026



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# What is NFM?

Sidbury Manor

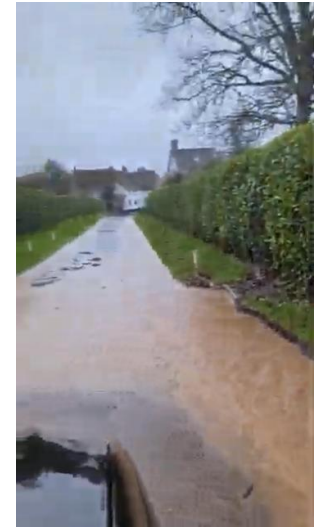


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# As a landowner, why do NFM? How does it benefit you!



- **Asset Protection**
  - Soil erosion & nutrient loss -> increase yield
  - Improved soil health & productivity -> increase yield
  - Flood risk to farm buildings, roads & farmland
- **Improved Soil Health & Productivity**
  - Leaky dams, buffer strips, wetland creation help retain water in dry periods & reduce runoff in wet periods -> more resilient yields over time
- **Biodiversity**
  - NFM can increase bird populations, pollinators & fish habitats
  - This can enhance ecotourism potential or shooting value
  - BNG opportunities
- **Strengthened Stakeholder Relationships**
  - Work with local authorities...unlock partnerships & funding
- **Increase Land Value (Long-Term)?**
  - Land with environmental resilience & ecosystem services is becoming more valuable



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# As a landowner, why do NFM? For public good!

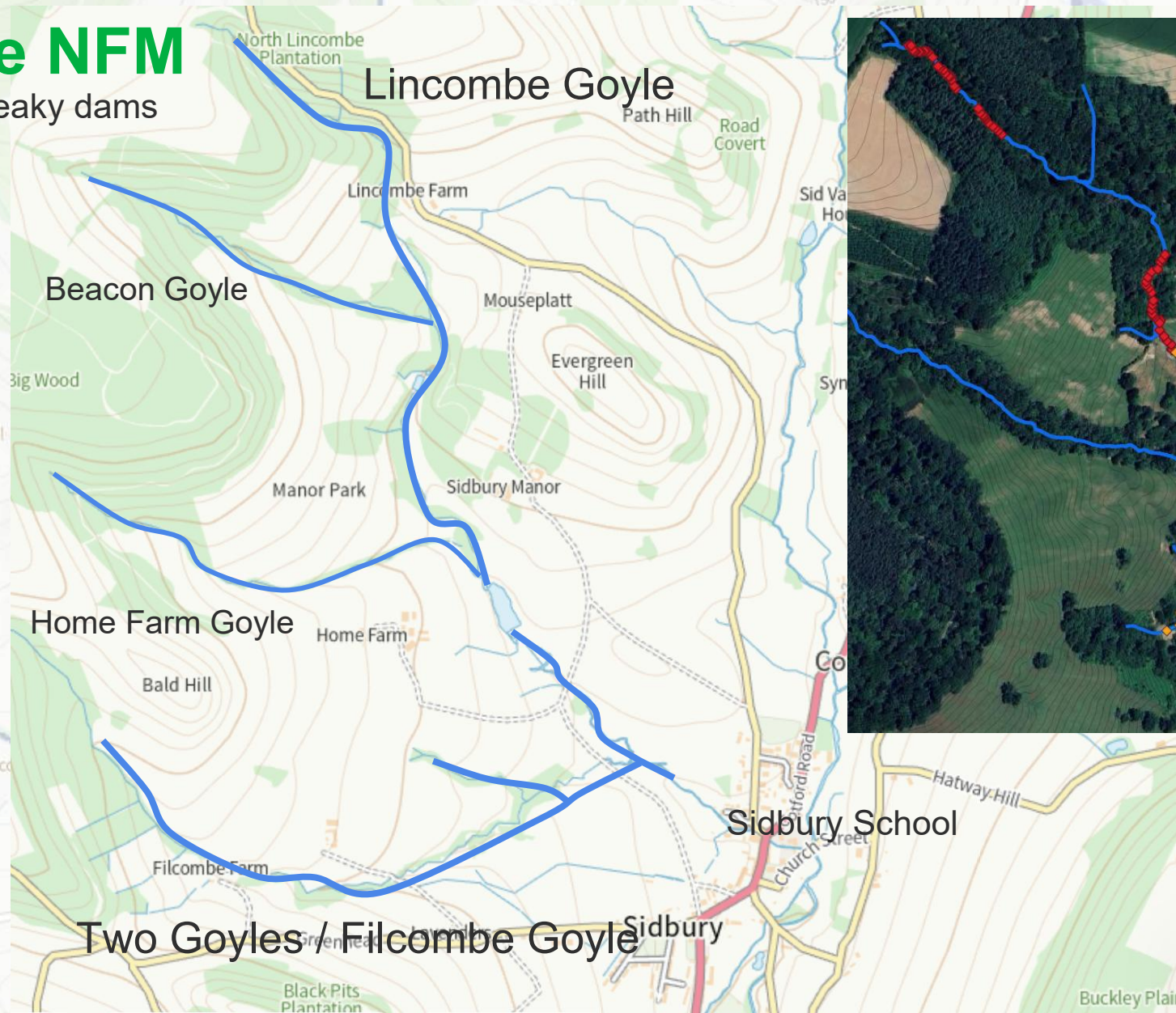
- **Reduced Flood Risk to Communities**
  - Slows & stores water upstream & reduces peak river peaks during storms
  - Fewer flooded homes & businesses
  - Lower disruption to transport, schools & services
- **Improved Water Quality**
  - Slows runoff carrying fertilisers, sediment & pollution -> Cleaner rivers
- **Biodiversity Recovery**
  - Creates & connects habitats -> rivers, wetlands
  - Supports increased flora & fauna
- **Lower Cost**
  - “Hard” flood defences are more expensive



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# Goyle NFM

250-300 leaky dams created



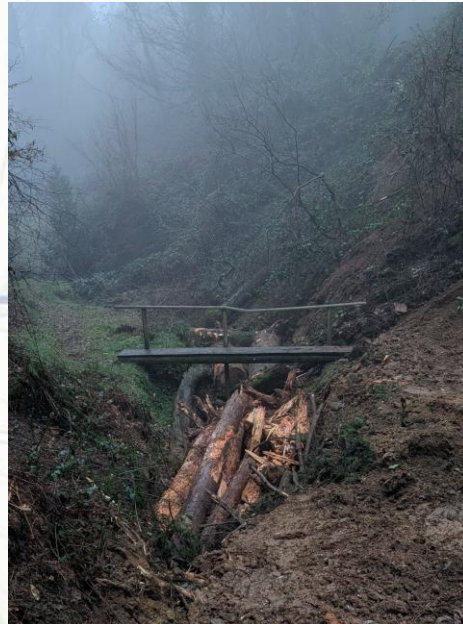
Environment Agency

# Coppicing



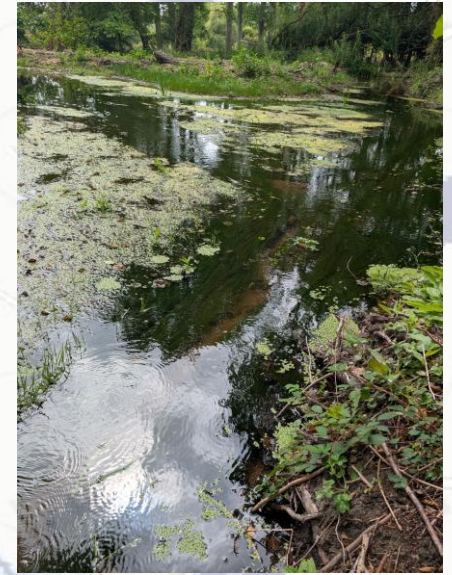
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# Leaky Dam Creation



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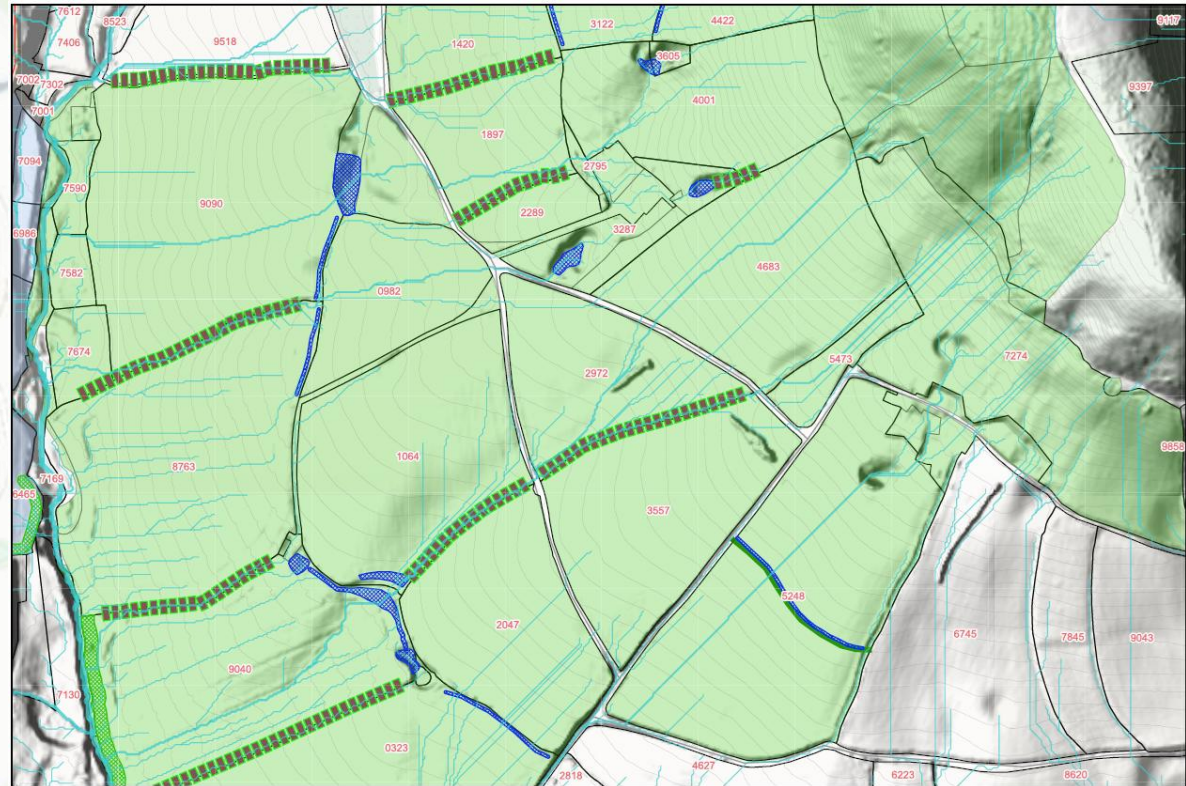
# Wetland Creation



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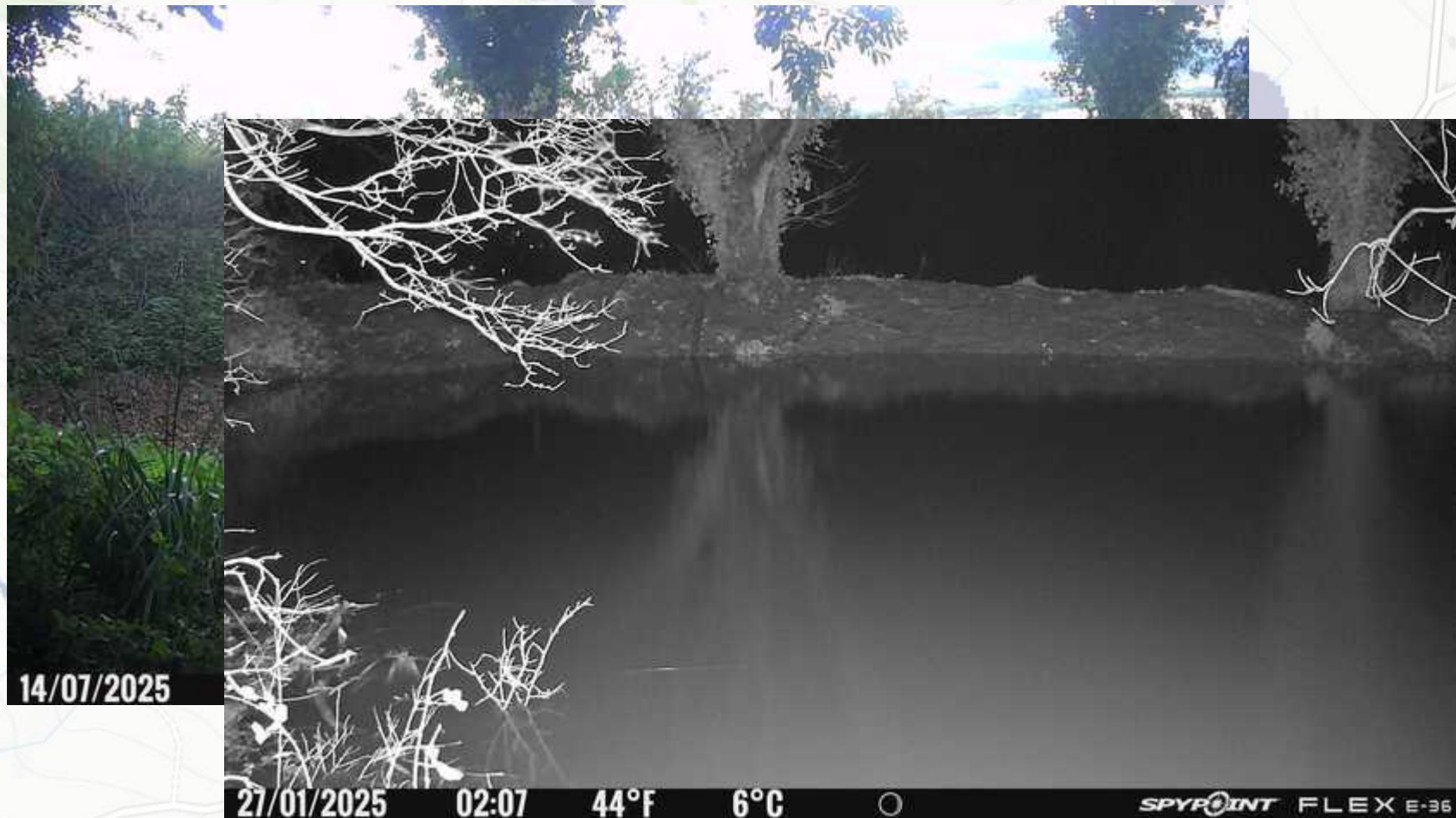
# Buckton Hill

- Check dams
- Swales
- Attenuation ponds





# Buckton Hill



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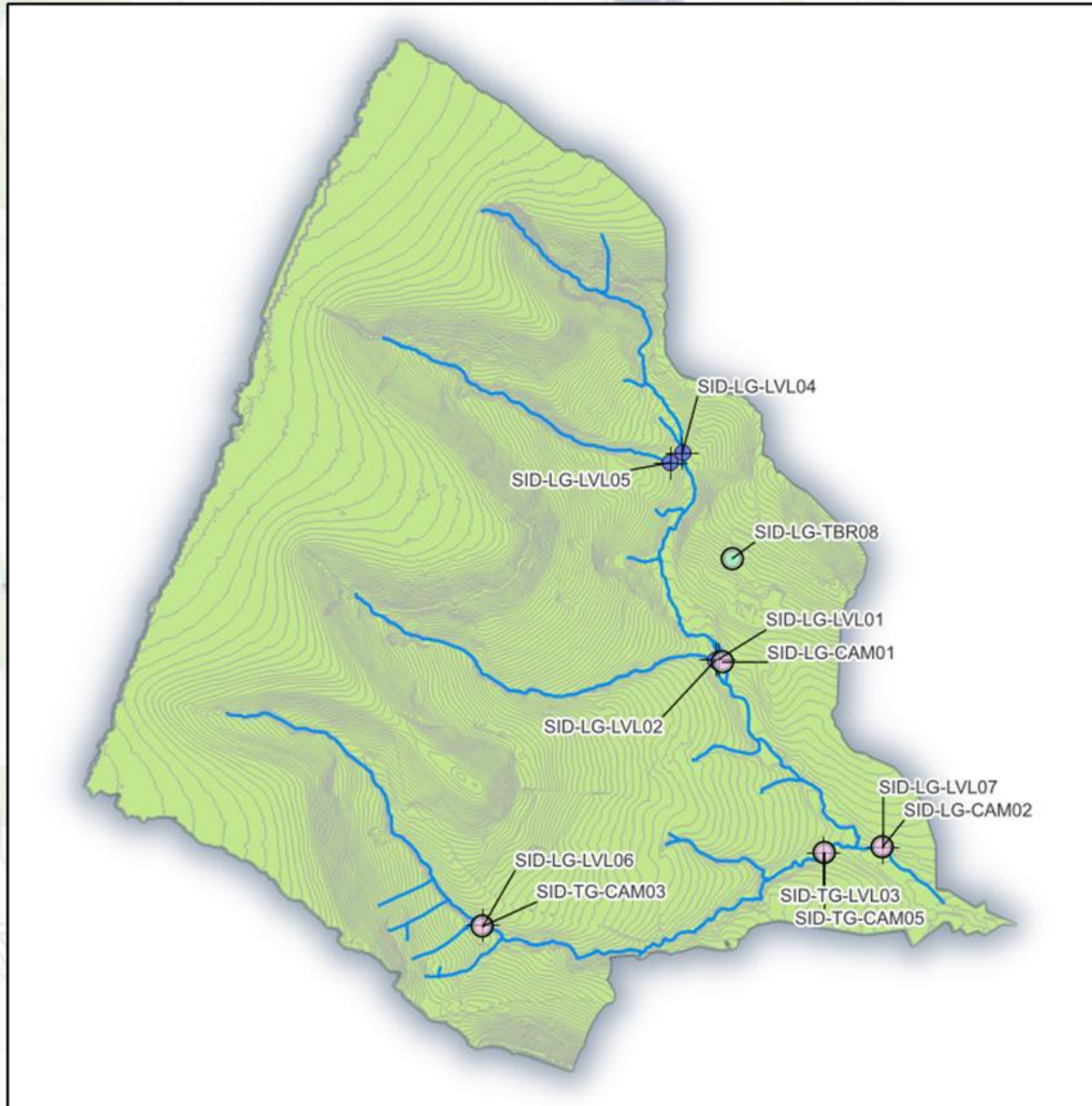
# Monitoring



Black Pits  
Plantation



# Monitoring - waterlevel & rainfall



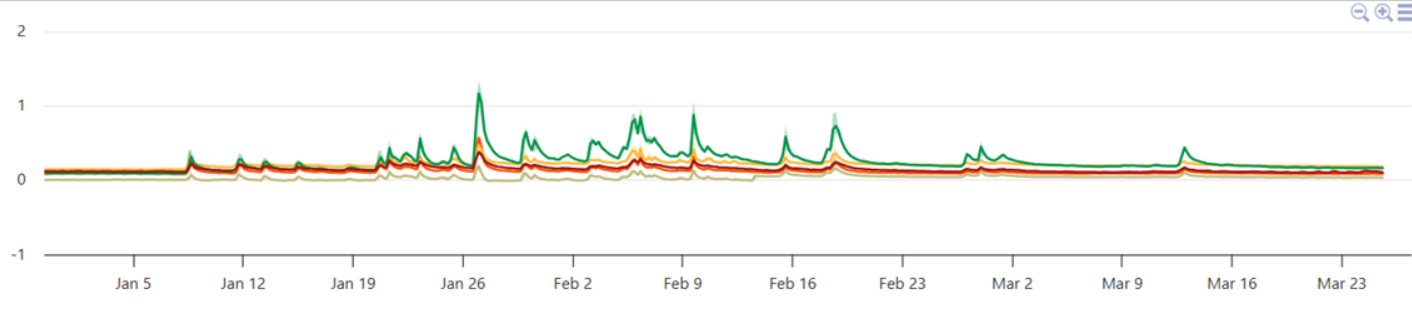
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# Monitoring - waterlevel & rainfall

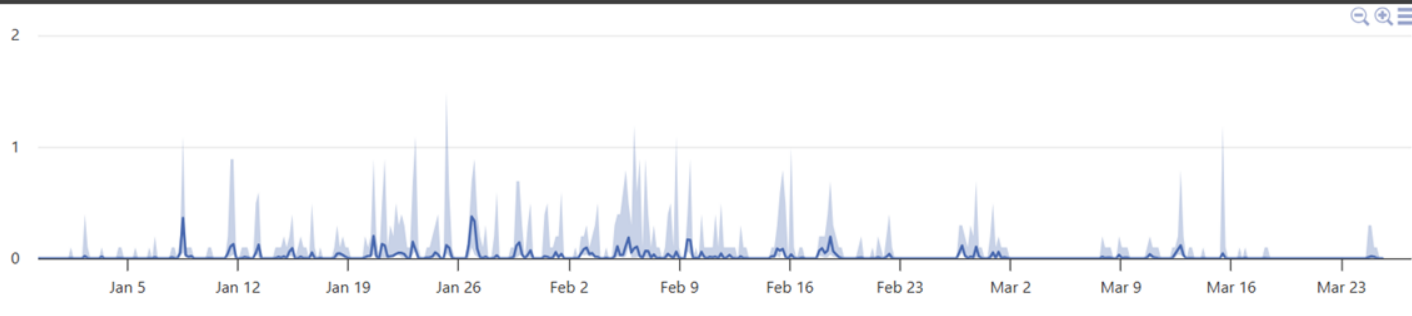
HydroVu

Notifications Simon Browning sbrowning@gmail.com

Level: Elevation (m)



Rainfall (mm)



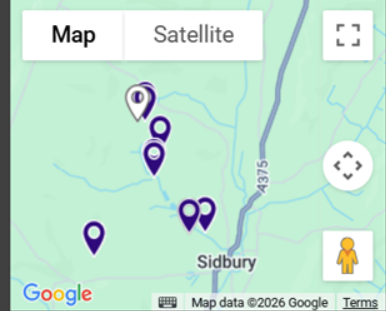
Level (%)



Export Data

Location Filters

Filter by Map



Sidbury Estate NFM  
Filter by Label  
Search by Keyword

Select Locations 16 showing, 14 selected

Location	Color
<input checked="" type="checkbox"/> SID-LG-16/1	Green
<input type="checkbox"/> SID-TG-0109	Purple
<input checked="" type="checkbox"/> SIDRTU01	Yellow
<input checked="" type="checkbox"/> SIDRTU02	Grey
<input checked="" type="checkbox"/> SIDRTU03	Teal
<input checked="" type="checkbox"/> SIDRTU04	Orange
<input checked="" type="checkbox"/> SIDRTU05	Blue

# Monitoring - time lapse cameras



# Monitoring - MoRPh surveys

Modular River Survey / Projects / MoRPh Rivers CSci / MoRPh Map


**Date Filter**  
 All Week Month Year Custom  
 01/08/2025 - 02/08/2025

**Team Filter**  
 NFM Programme

**Channel Characteristics**

- INDEX 1: Number of Flow Types  
1.00
- INDEX 2: Highest Energy Present/Extensive Flow Type  
RP
- INDEX 3: Number of Bed Material Types  
2.00
- INDEX 4: Coarsest Present/Extensive Mineral Bed Material Type

**20250801\_1515\_M01\_US**



Simon Browning 1  
 14/09/2025  
 Module 1- looking upstream

SURVEY DETAILS							CHANNEL CHARACTERISTICS	
RIVER	REACH	SUBREACH	MODULE NUMBER	PROJECT NAME	MORPH CORRELATION CODE	DATE/TIME	PHOTOGRAPHS	INDEX 1: NUMBER OF FLOW TYP
Lincombe Stream	Lincombe Stream, Lincombe Lower	Lincombe Stream, Lincombe Lower, South Drive	1	Sidbury Estate NFM	-	01/08/2025	<a href="#">View Gallery</a>	1.00



# Monitoring - water quality

Environment Agency have stipulated that water quality must be measured every 6 months, to include:

- Temperature
- Conductivity
- Turbidity
- Phosphate
- Nitrate
- Ammonia
- pH

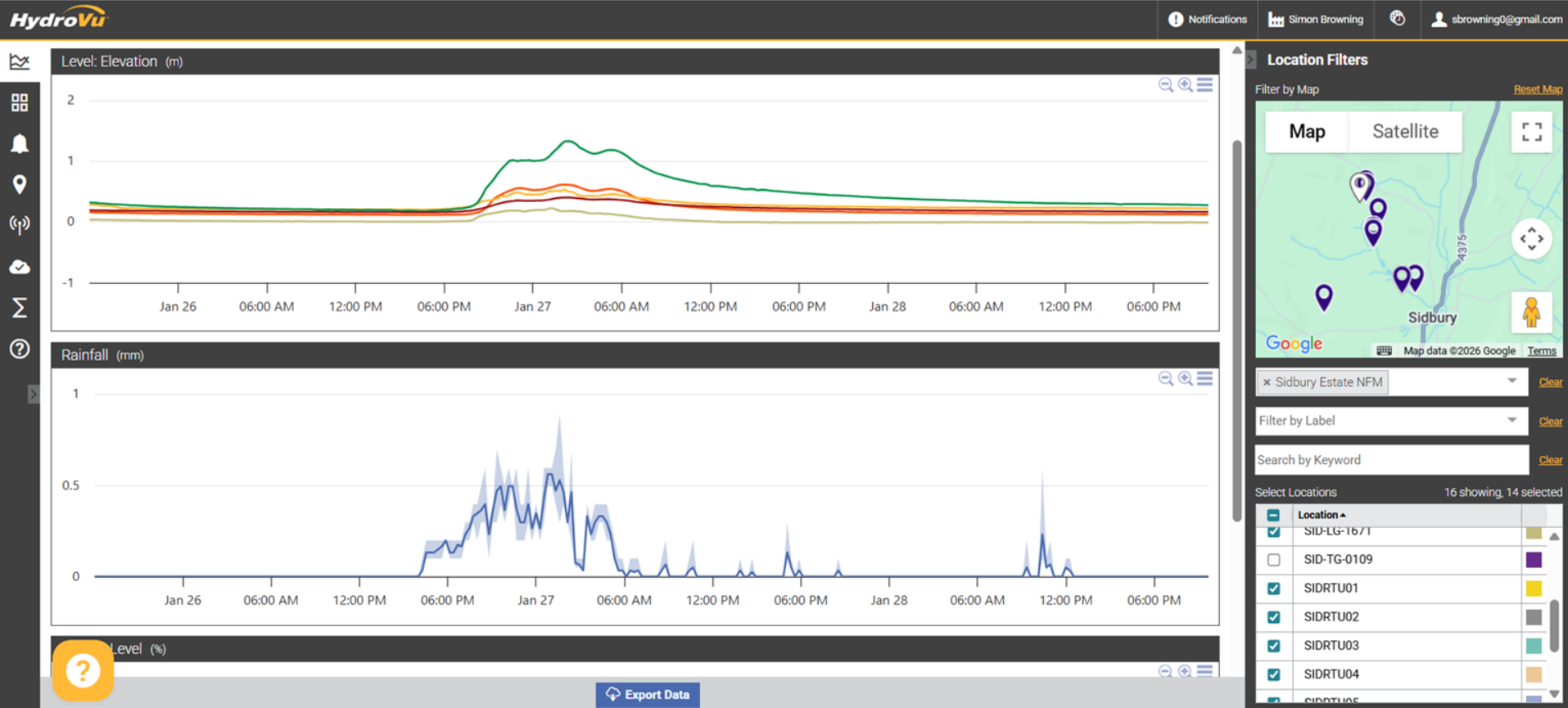


That takes a full day each time.

We are taking monthly readings (with flow) at the furthest downstream site only.



# Monitoring - Storm 'Chandra' 26-27 Jan



# Monitoring - Storm 'Chandra' 26-27 Jan



28/01/2026

05:20

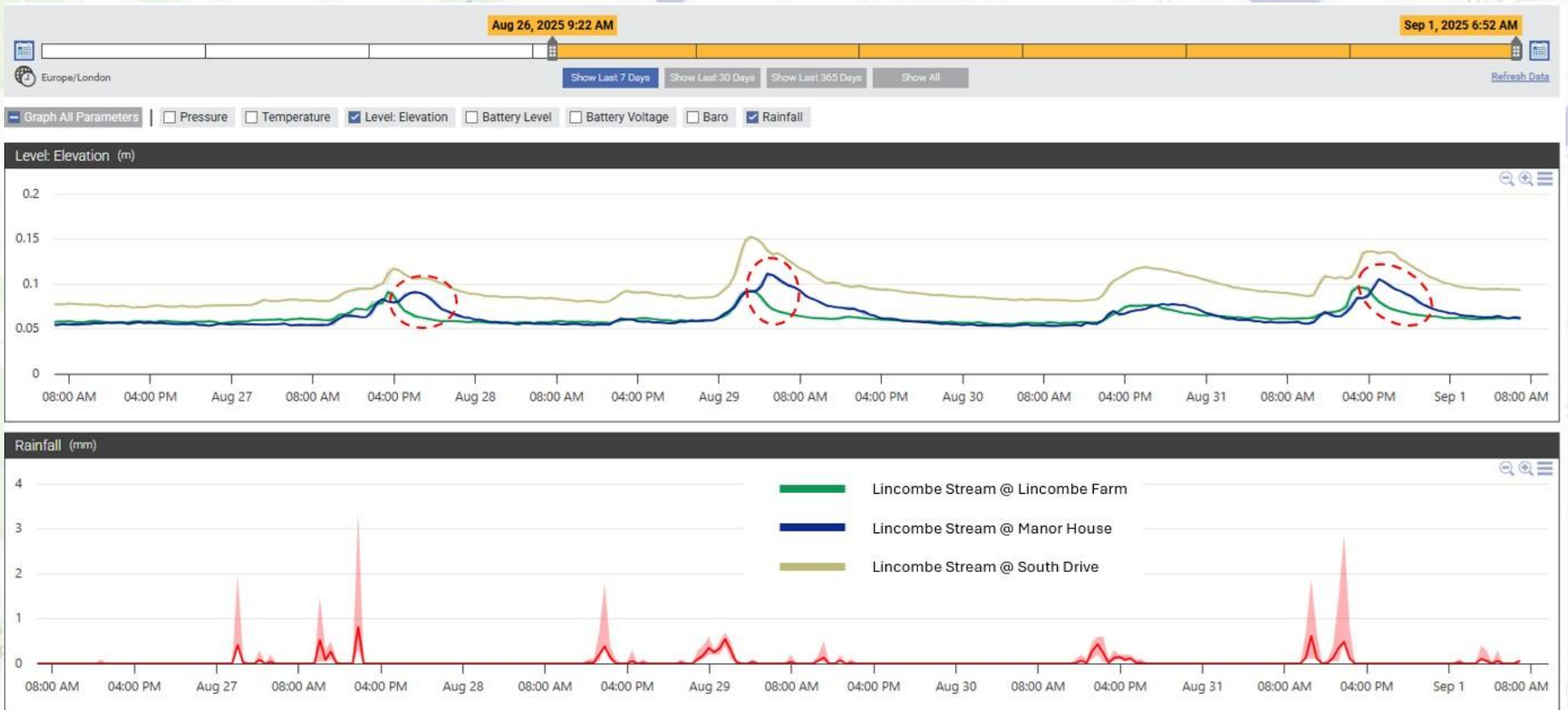
37°F

2°C



SPYPOINT FLEX E-36

# Monitoring



# Thank you

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**Simon Browning, Technical Lead**

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