Leeds Flood Alleviation Scheme: Natural Flood Management

The UK's largest NFM project

The project aims to *reduce the flood peak in Leeds by up to 5%*, complementing traditional hard defences in the city centre.

- 687km^2 catchment upstream of Leeds
- 11 NFM measures
- Delivery between 2018 - 2025 with multiple benefits to be realised between 2039 - 2069

Innovative approaches: GIS

We are developing a GIS platform which will enable us to:

- *Query relevant data* on the catchment; for example to identify constraints to delivery or environmental risks
- *Produce conceptual designs on site* which take into account site specific data e.g. suitability of NFM measure, utilities, known H&S hazards and risks
- Apply tools to aid *site specific design of NFM features*

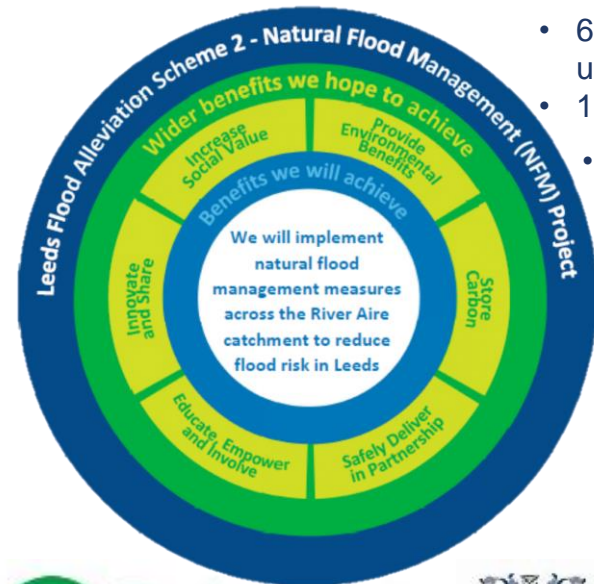| Sub-catchment	Name	Area (hectares)
1	Aire	1980.0
2	Cow Beck	1715.5
3	Bagley Beck	744.8
4	Aire	1356.5
5	Aire	3204.3
6	Guiseley Beck	1462.3
7	Gill Beck	1361.3
8	Bradford Beck	8747.5
9	Shipley Glen	796.8
10	Aire	1765.0
11	Harden Beck	3272.5
12	Morton Beck	1066.3
13	River Worth	7150.0
14	Aire	3205.4
15	Silsden Beck	1349.3
16	Eastburn Beck	4151.0
17	Aire	2027.3
18	Aire	2979.7
19	Eller Beck	3414.3
20	Earby Beck	5510.0
21	Eshton Brook	5753.0
22	Aire	3794.2
23	Aire	4886.2

Innovative approaches: Landowner Engagement and Partnership

We are creating a Landowner Engagement Team (LET) working with the local community forest group to build and develop relationships with catchment landowners.
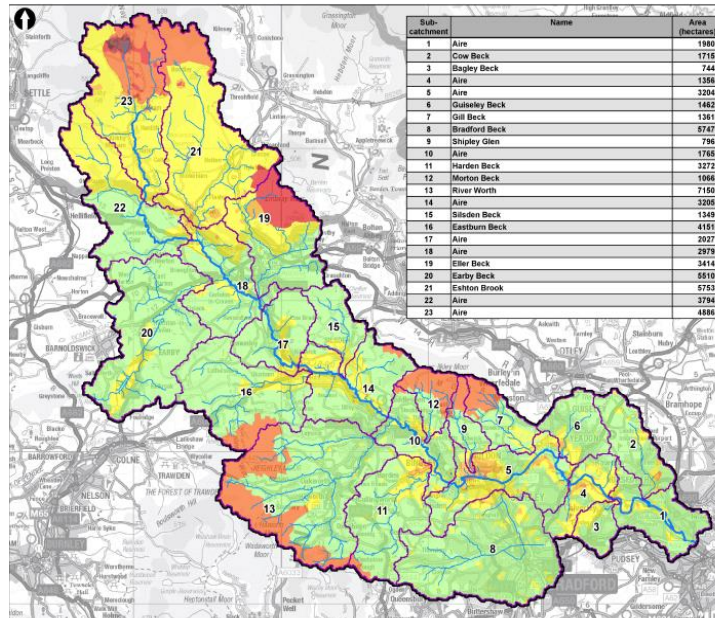
The LET will:

- include a project manager who will coordinate engagement with landowners;
- use the GIS platform to carry out desk-based reviews of sites before visits;
- use iPads on site to access the GIS platform, allowing provision of accurate information to landowners, production of concept designs and assessment of risk and complexity.

We are using Leeds Council plant nursery to grow over 1 million trees to be planted in the catchment over the project lifetime.

Leeds Flood Alleviation Scheme 2 - Natural Flood Management (NFM) Project

Wider benefits we hope to achieve
Increase Social Value
Provide Environmental Benefits

Benefits we will achieve

We will implement natural flood management measures across the River Aire catchment to reduce flood risk in Leeds

Innovate and Share
Store Carbon
Educate, Empower and Involve
Safely Deliver in Partnership

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Environment Agency

Leeds CITY COUNCIL