

# Restoring the Nant y Wedal at Heath Park

## - Upstream Reach

Seven restoration opportunities have been identified for the upstream reach of the Nant y Wedal stream:

1. Channel re-meandering
2. Channel shape restoration
3. Remove or upgrade footbridges
4. Formalise riverside path with information boards and benches
5. Riparian zone planting
6. Set back cherry trees
7. Natural woodland creation

### 6. Set back cherry trees

To provide space for the re-meandered channel, the cherry trees would need to be moved from the river corridor and placed elsewhere within Heath Park.

### 7. Natural woodland Creation

Planting a natural woodland could improve habitat in Heath Park helping birds and animals to find refuge, nest and forage. It will also help to store water.

### 3. Remove or Upgrade Footbridges

Moving the bridge piers away from the riverbanks would help to re-naturalise the banks and provide more space for the stream. The footbridges would also be structurally safer, benefitting the community.

### 1. Channel re-meandering

We could turn the channel into a winding shape, reinstating its natural bends. This would support more wildlife through the creation of riffles, bars and pools which are found in natural streams.

### 4. Formalise riverside path with information boards and benches

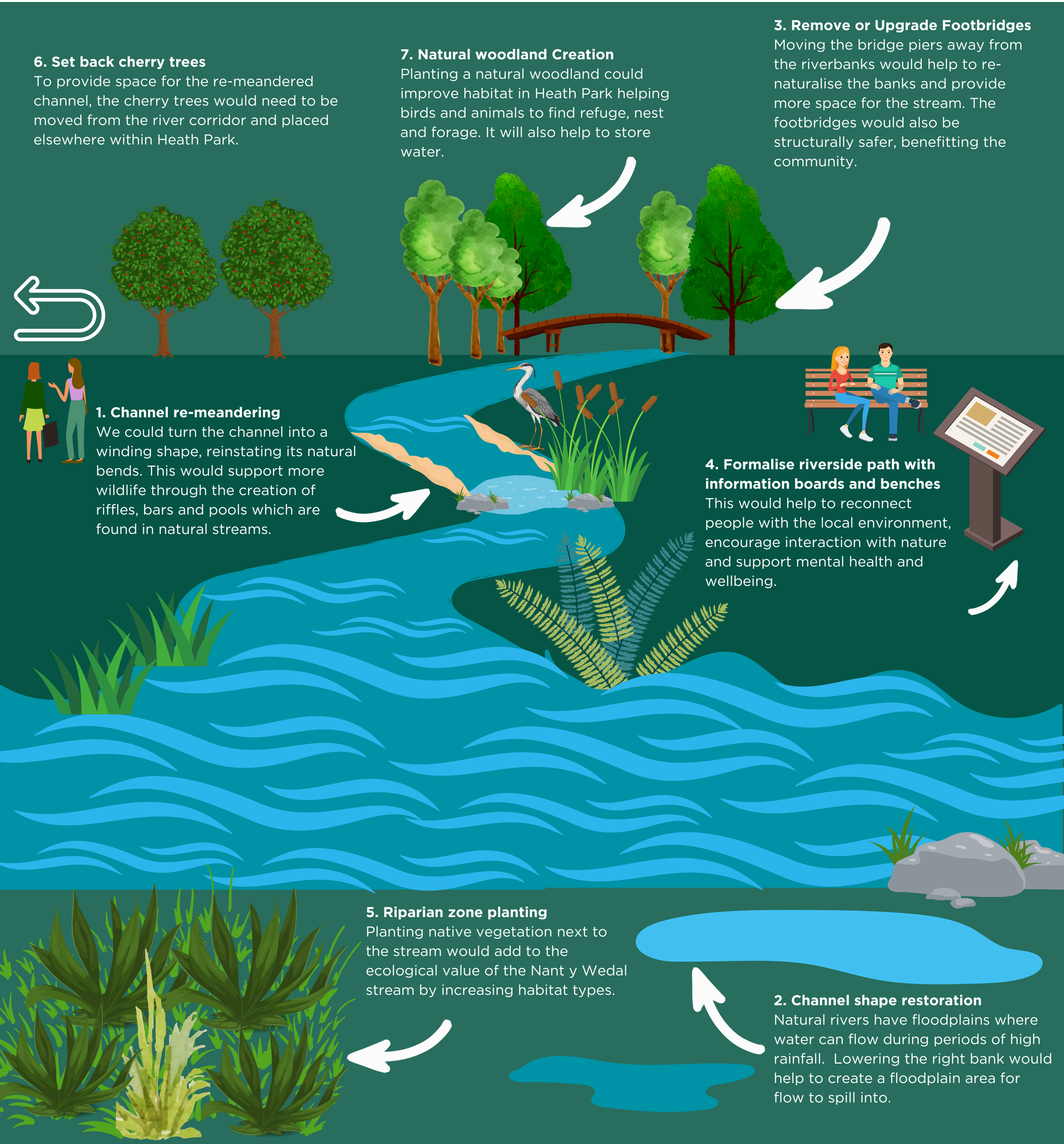
This would help to reconnect people with the local environment, encourage interaction with nature and support mental health and wellbeing.

### 5. Riparian zone planting

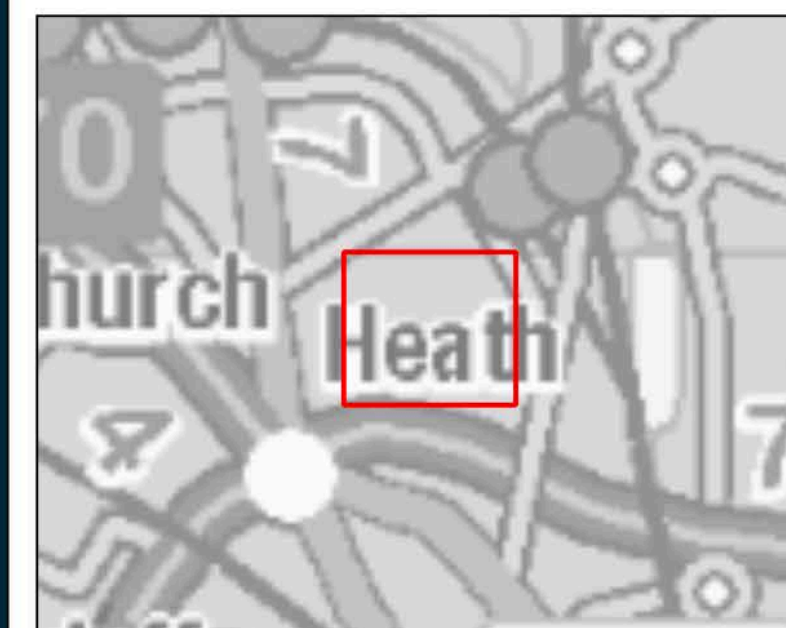
Planting native vegetation next to the stream would add to the ecological value of the Nant y Wedal stream by increasing habitat types.

### 2. Channel shape restoration

Natural rivers have floodplains where water can flow during periods of high rainfall. Lowering the right bank would help to create a floodplain area for flow to spill into.







## Nant y Wedal Upstream Reach

### Legend

- Culverts
- Nant Y Wedal
- Nant y Wedal Project Area
- Upstream Reach

Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community








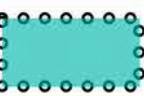







## Nant y Wedal Upstream Reach

### Legend

-  Nant Y Wedal
- Restoration options**
  -  Bench/Information Boards
  -  Set Back Cherry Trees
  -  Formalised Path
  -  Channel shape restoration
  -  Channel re-meandering
  -  Footbridge Removal or Upgrade
  -  Natural Woodland Creation
  -  Riparian Planting

Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community





# Restoring the Nant y Wedal at Heath Park

## - Downstream



Cyfoeth  
Naturiol  
Cymru  
Natural  
Resources  
Wales

Six restoration opportunities have been identified for the downstream reach of the Nant y Wedal:

1. Woodland management
2. Add woody material
3. Set back or removal of surface water outflow
4. Remove timber flume and reprofile banks
5. Remove the twin culvert (footbridge)
6. Install culvert screen and upgrade footpath



### 1. Woodland management

Woodland management is recommended to reduce shading of the stream. This would allow vegetation to grow along the riverbanks which would help to combine soils and reduce the amount of fine sediment entering the stream when it rains.

### 5. Remove the twin culvert (footbridge)

Removing the twin culvert (footbridge) would help to improve the movement of water and sediment downstream and reduce erosion.

### 4. Remove timber flume and reprofile banks

This would restore a natural channel width and bank profile. This will provide more space for habitat and make the stream more visually appealing.

### 3. Set back or removal of surface water outflow

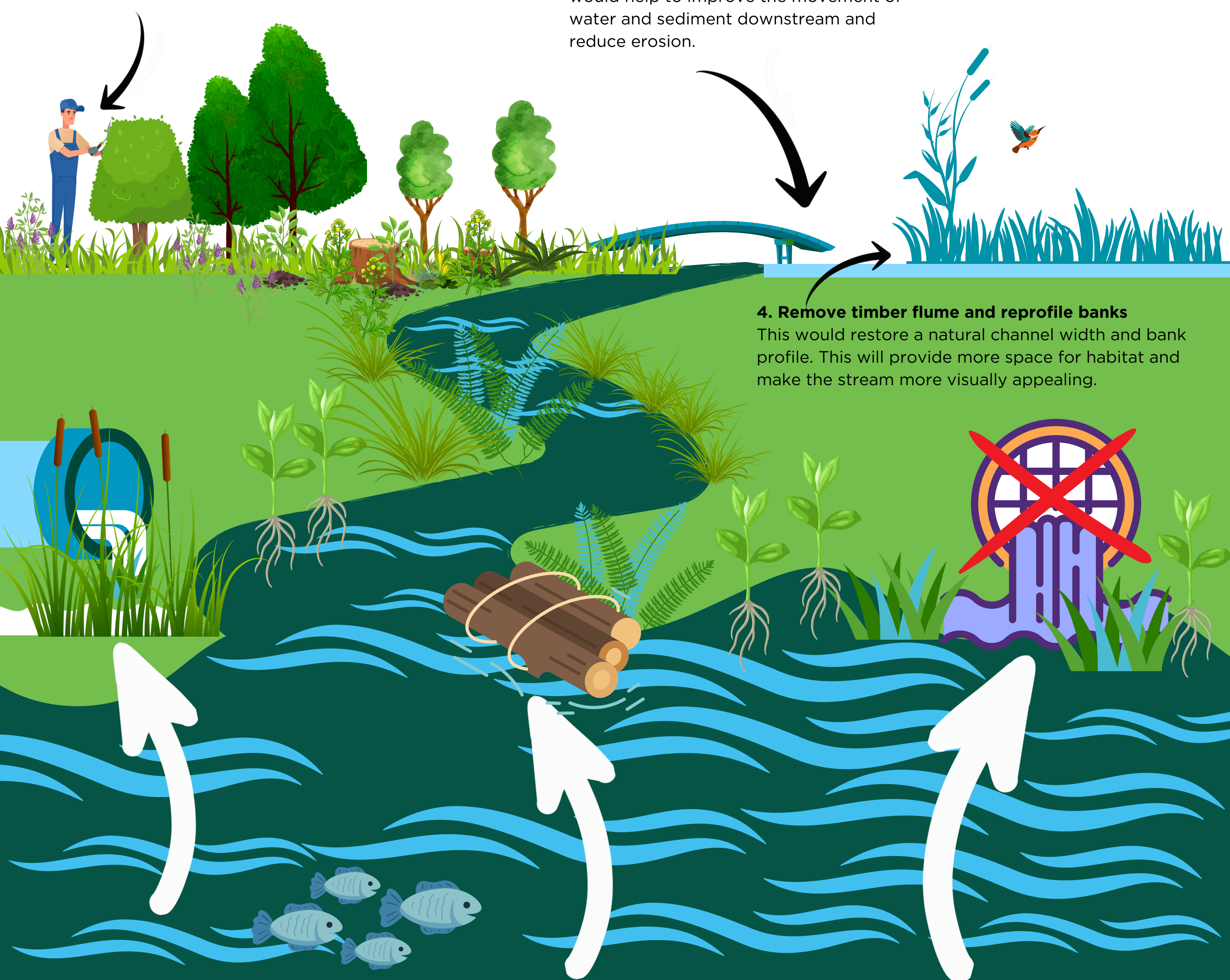
This would re-instate a natural bank and could improve water quality by filtering flow of pollutants before it enters the stream.

### 2. Add woody material

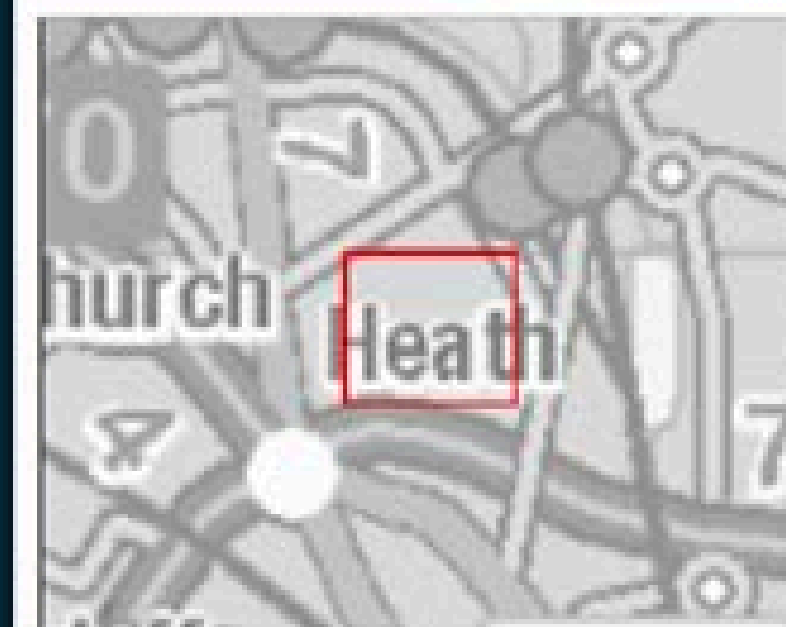
The addition of woody material would help to create natural features in the stream, such as sediment bars, which are important habitats for wildlife.

### 6. Install culvert screen and upgrade footpath

The Nant y Wedal stream enters a culvert at the downstream point of the project area. Adding a screen to the culvert opening would enhance public safety and would help to prevent blockages in the culvert system.







## Nant y Wedal Downstream Reach

### Legend

- Culverts
- Nant Y Wedal
- Nant y Wedal Project Area
- Downstream Reach

Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community







## Nant y Wedal Downstream Reach

### Legend

-  Culverts
-  Nant Y Wedal
- Restoration opportunities**
-  Culvert Screen
-  Outfall Set Back or Removal
-  Add Woody Material
-  Timber Flume Removal
-  Footbridge Removal or Upgrade
-  Woodland Management

Sources: Esri, DigitalGlobe, GeoEye, i-cubed, USDA FSA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

