



Iascach Intíre Éireann
Inland Fisheries Ireland



Armagh City
Banbridge
& Craigavon
Borough Council

The Catchment CARE project

(Community Actions For Resilient Ecosystems)

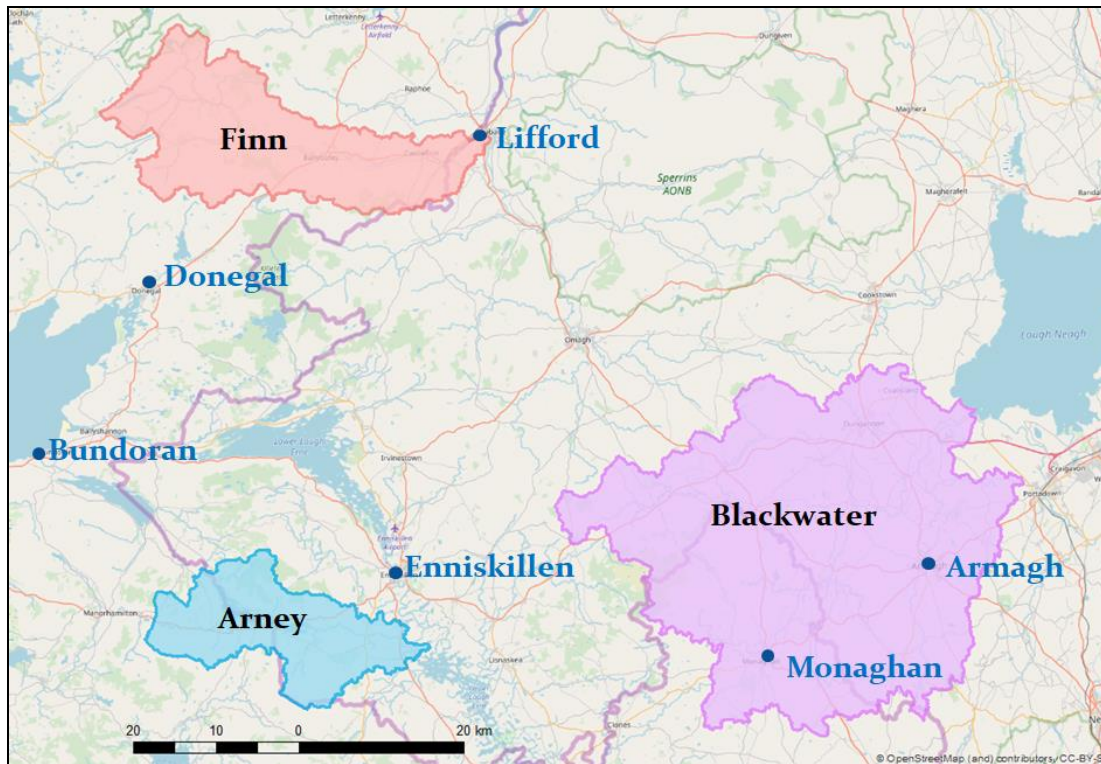
Catchment CARE

Interreg
Northern Ireland - Ireland - Scotland
European Regional Development Fund

 Special EU Programmes Body
Foras Um Chláir Speisialta An AE
Boord O Owre Ocht UE Projects

CIEEM Conference, Athlone, February 2019
James J. King, IFI, and Marcus Malley, ABC Council

Project spatial scope . .



**Monies.....
E14M**

Timescale

**...
2018 -
2022**



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8 Project Partners with DCC Lead Partner . . .



**Comhairle Contae
Dhún na nGall**
Donegal County Council



Loughs Agency



**Armagh City
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Borough Council**



**Ulster
University**



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL



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The Issues.....

- **WFD driver**
- **Waterbody status impactors**
 - Nutrients (P and N)
 - Hydromorphology (Physical habitat)

The Challenge.....

Implementing measures that make a difference....



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WORK PACKAGES

M – Project Management

T1 – Scoping & Action Targeting

T2 – Water Body Actions in Catchments

T3 – Catchment Land Use Actions

T4 – Groundwater

T5 – Project Legacy

C – Communications



Scoping and Targeting Actions

Lets find out the current situation.....FIRST!!

- **WFD.....bring ALL water bodies to at Least GOOD status**
- **Find out current WFD status**
- **Hydromorphology evaluation...EQRs**
 - Instream
 - Riparian
 - Connectivity



Fish surveys: Generate Fish EQRs



Hydromorphology EQRs

INSTREAM CONDITION



RIPARIAN CONDITION



RIVER CONTINUITY - Barriers



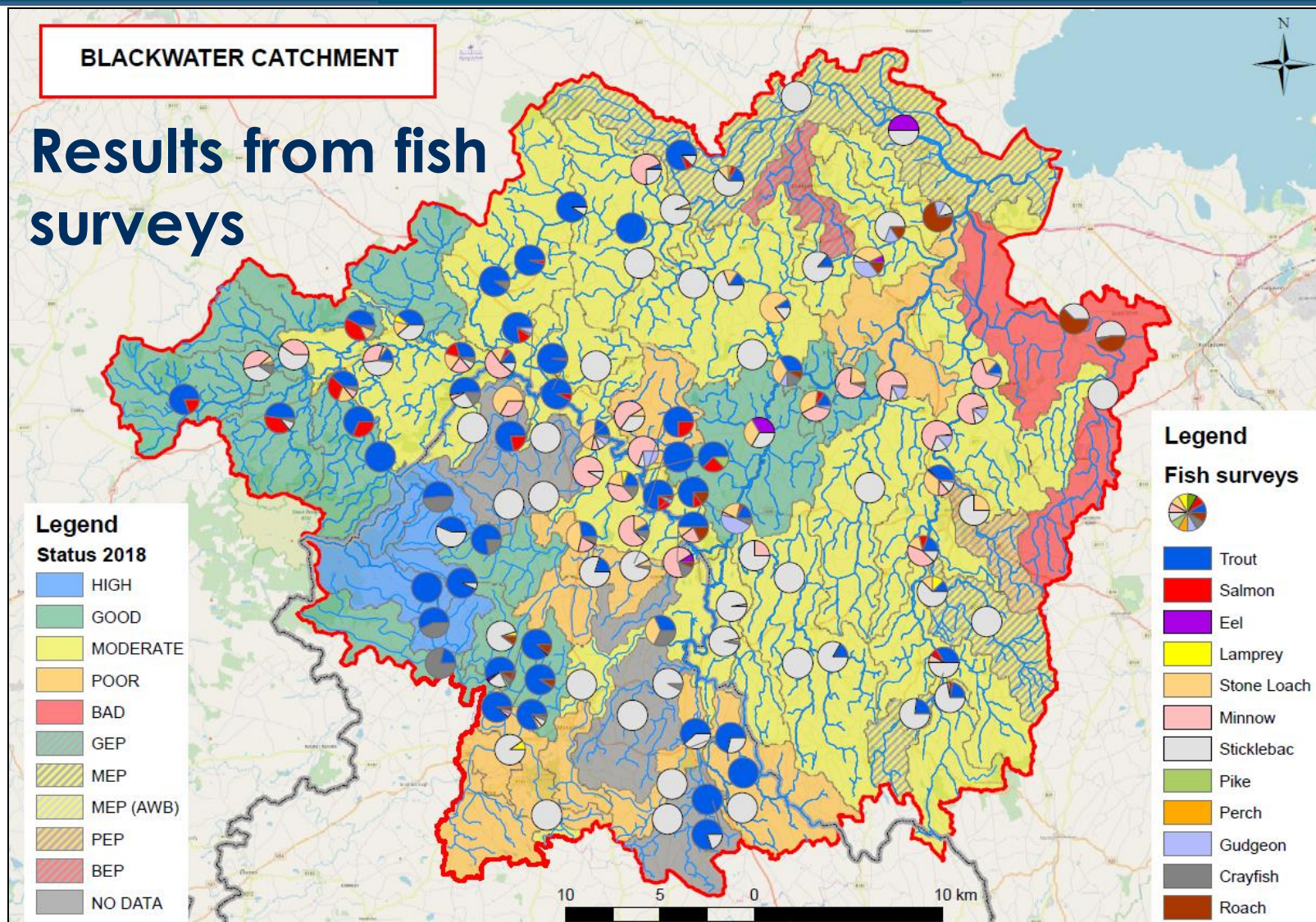


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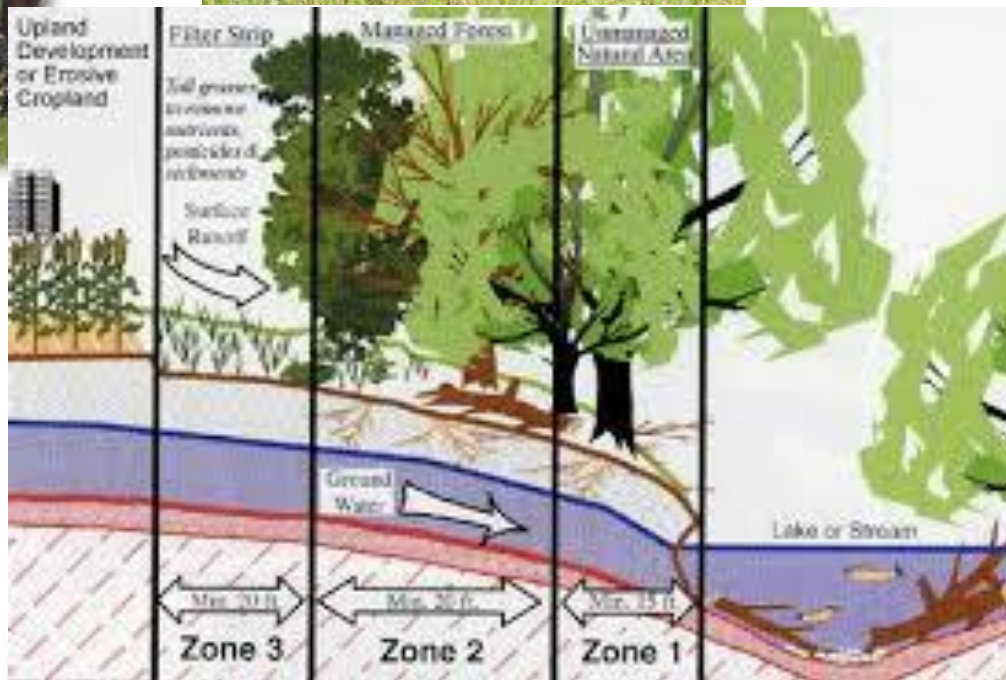


BLACKWATER CATCHMENT

Results from fish surveys



Water Body Actions in Catchments

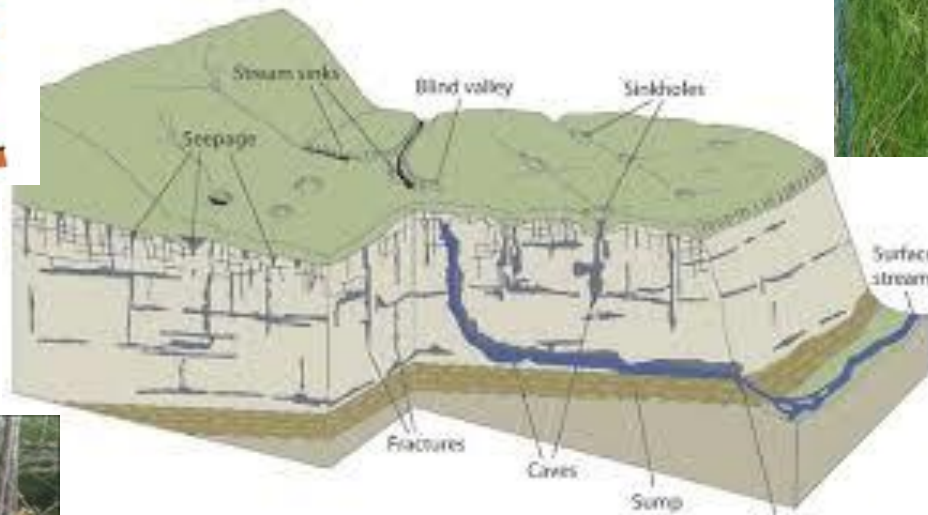


Catchment Land Use Actions



Groundwater

target of 50 boreholes

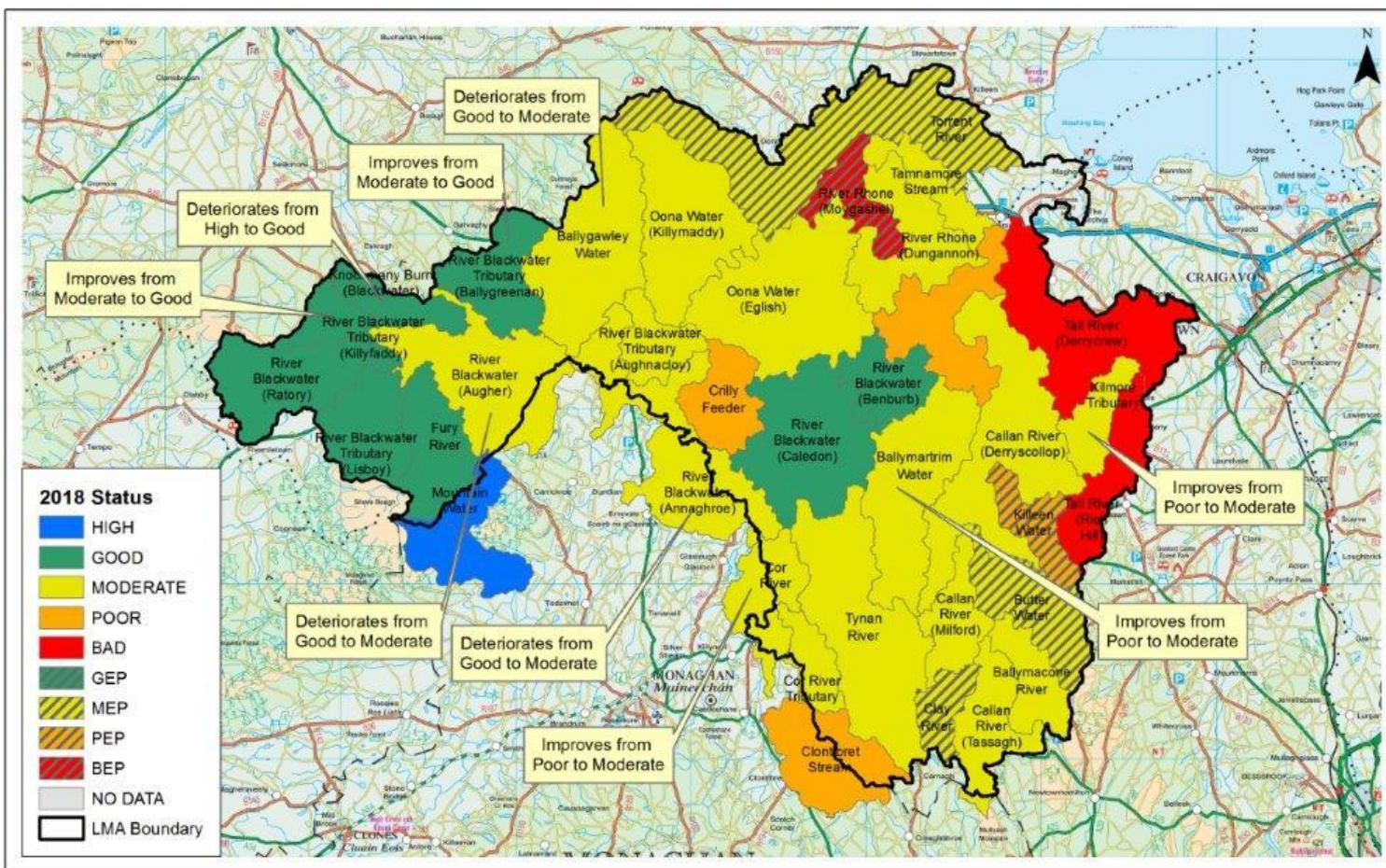


Project Legacy - Communications



Catchment CARE

Community Actions for Resilient Ecosystems



**River Blackwater LMA
2018 Interim Status**

0 5 10 km

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www.doe-ri.gov.uk

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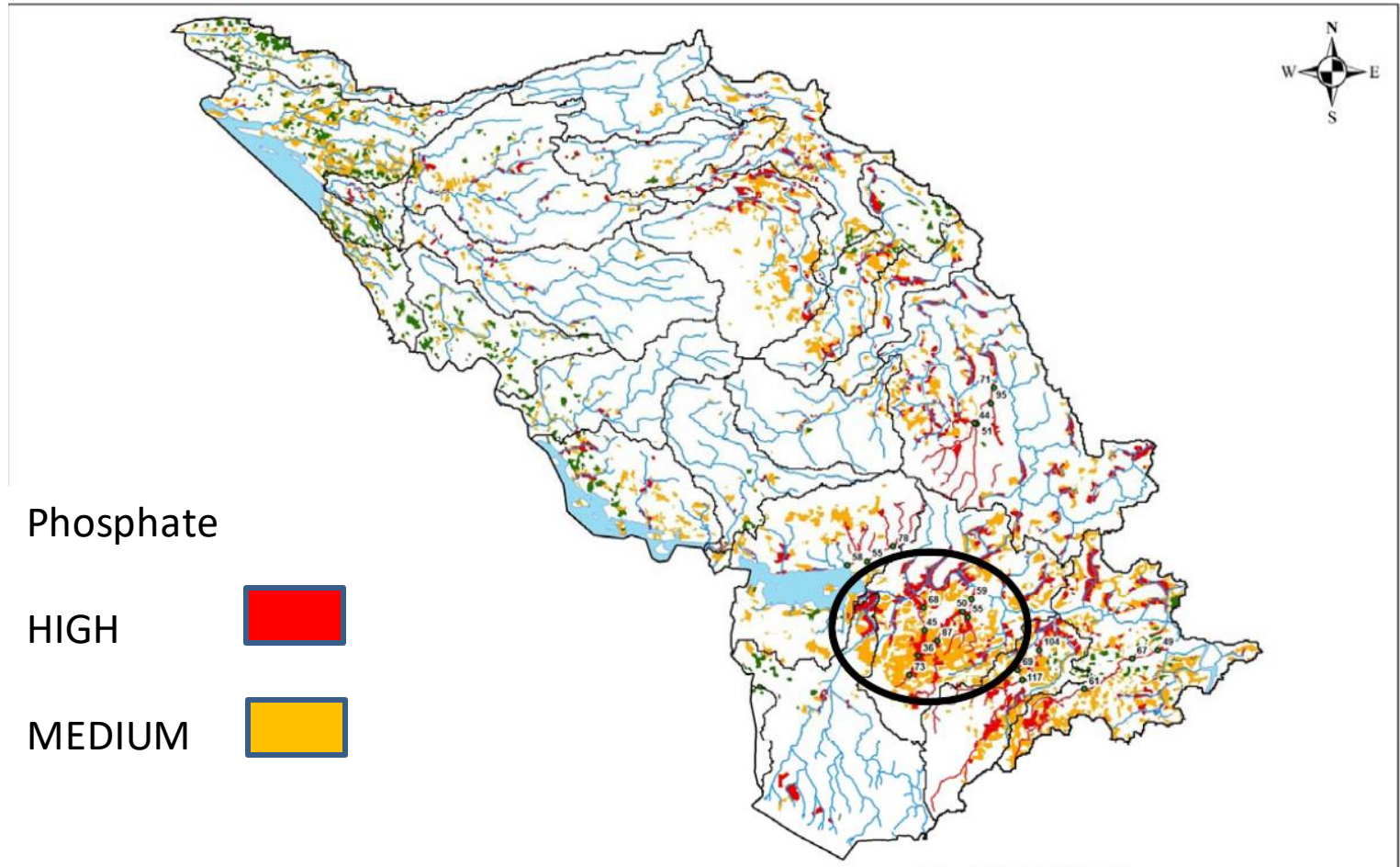
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Status of water bodies – why they are failing

- **Phosphates**
- **Nitrates**
- **Silt**



Phosphate Risk Areas



Title: **EFS Critical risk areas**
Scale: **1:123,315**
Drawn by: **1003242**
Date: **26 June 2015**

0 1.75



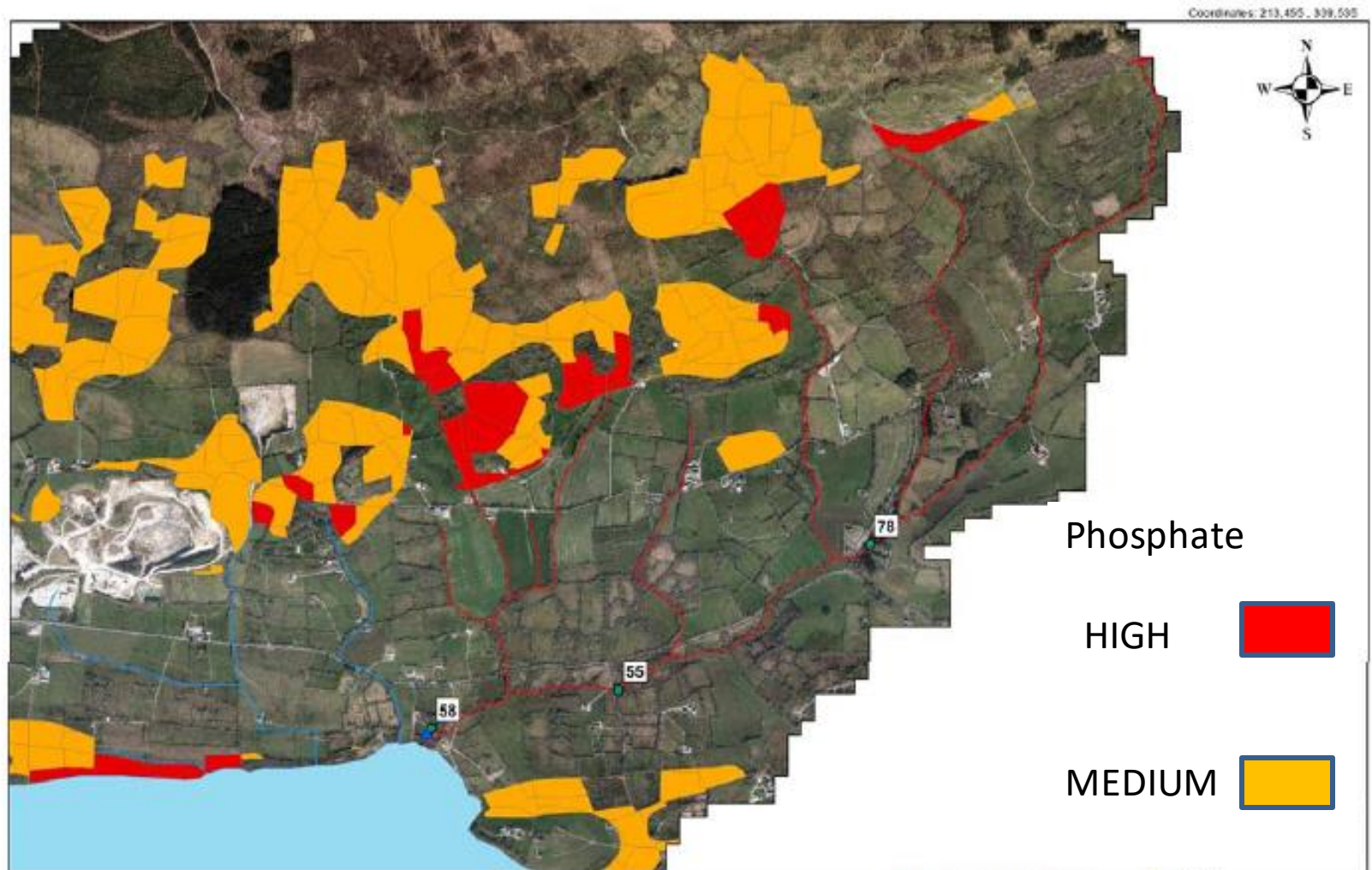
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meters



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Phosphate Field Data



Title: **EFS Critical risk areas**

Scale: **1:12,613**

Drawn by: **1003242**

Date: **02 July 2015**

De
lmj



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meters

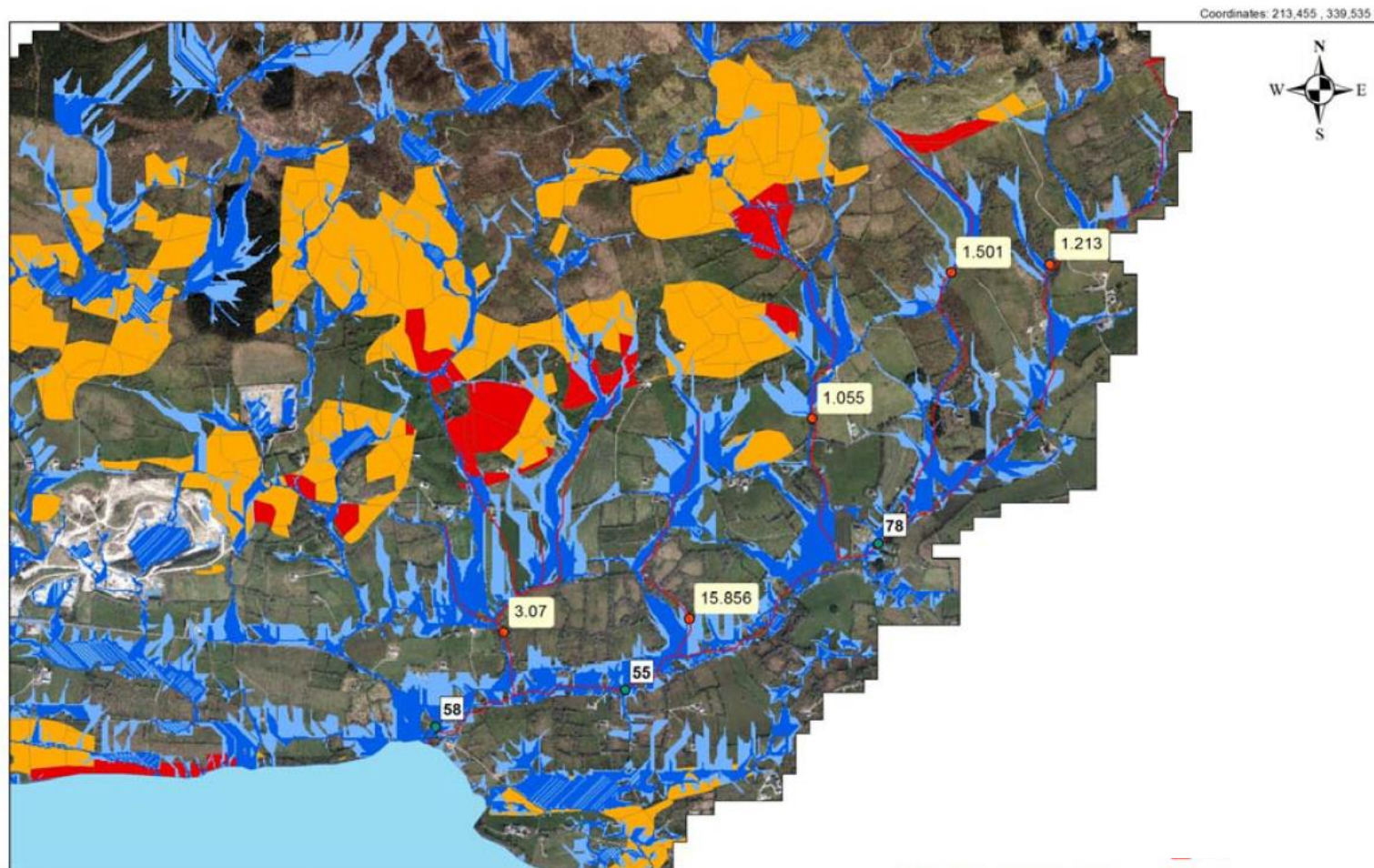


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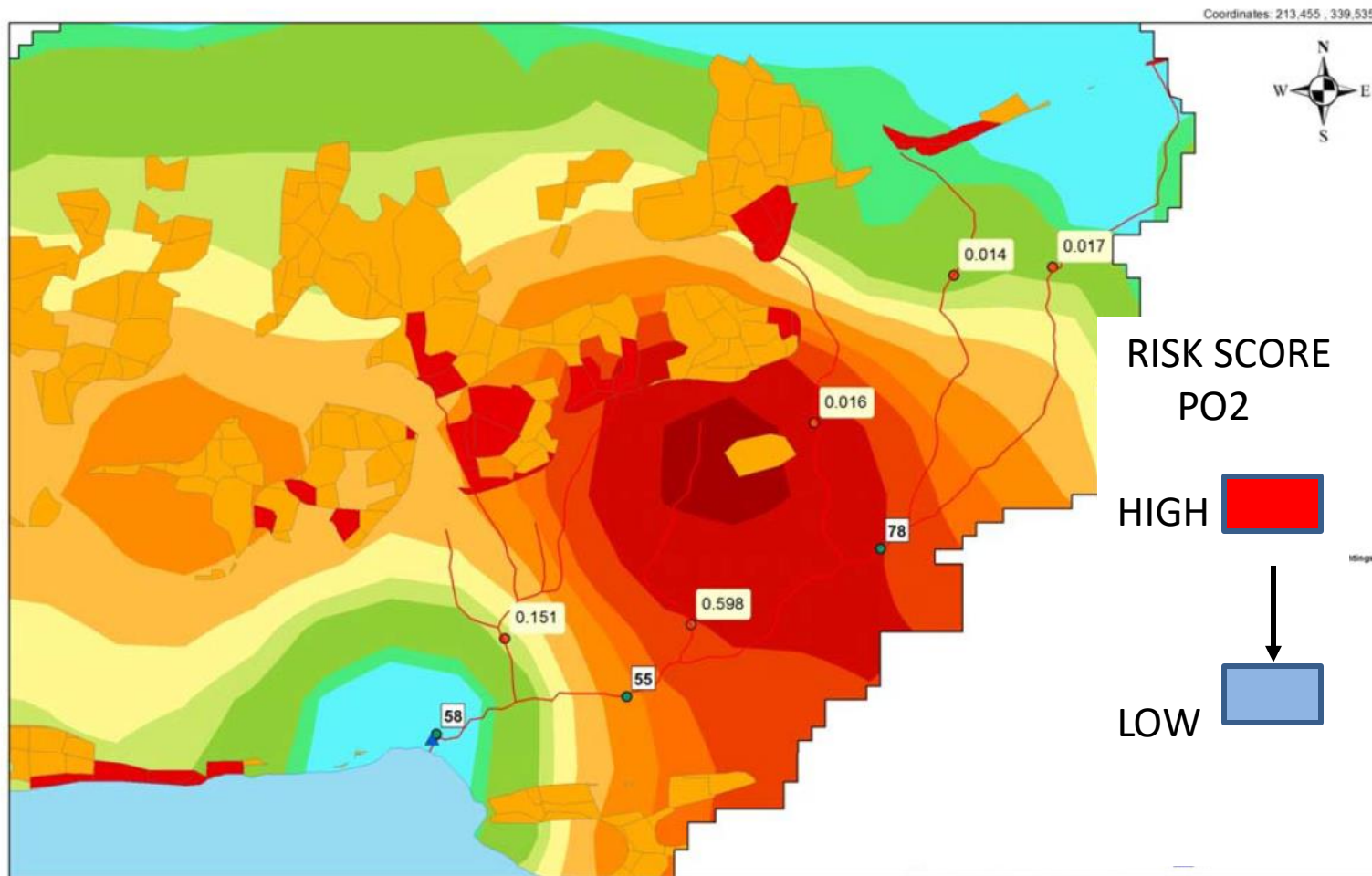
Phosphate and Rainfall



Title: **EFS Critical risk areas**
Scale: **1:12,613**
Drawn by: **1003242**
Date: **02 July 2015**

0 0.175 0.3

Risk Map - Phosphate Runoff



Title: **EFS Critical risk areas**
 Scale: **1:12,613**
 Drawn by: **1003242**
 Date: **02 July 2015**

0 0.175



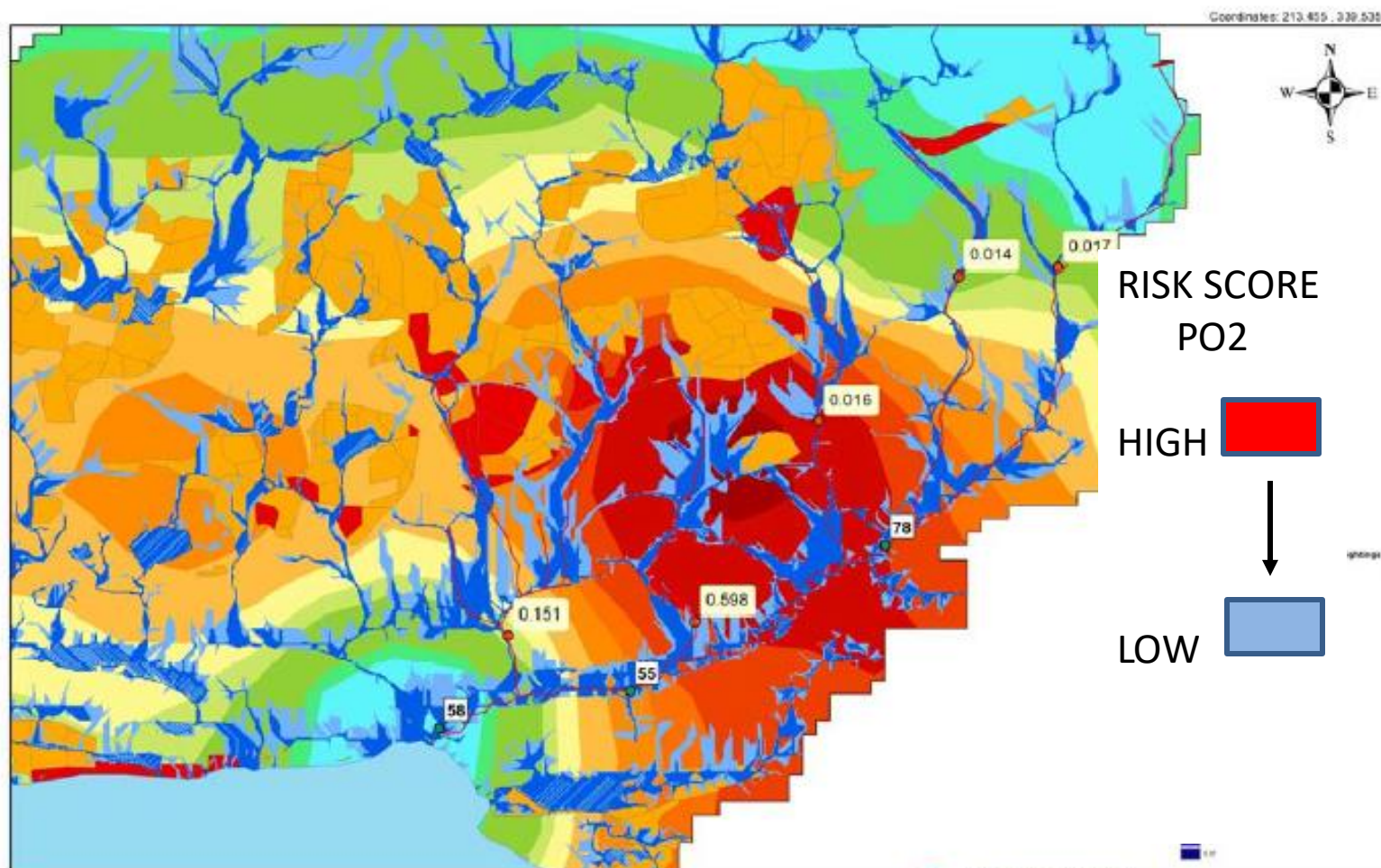
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Pathways to Phosphate runoff



Title: **EFS Critical risk areas**
Scale: **1:12,613**
Drawn by: **1003242**
Date: **02 July 2015**

0 0.175



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kilometers

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Bank Erosion



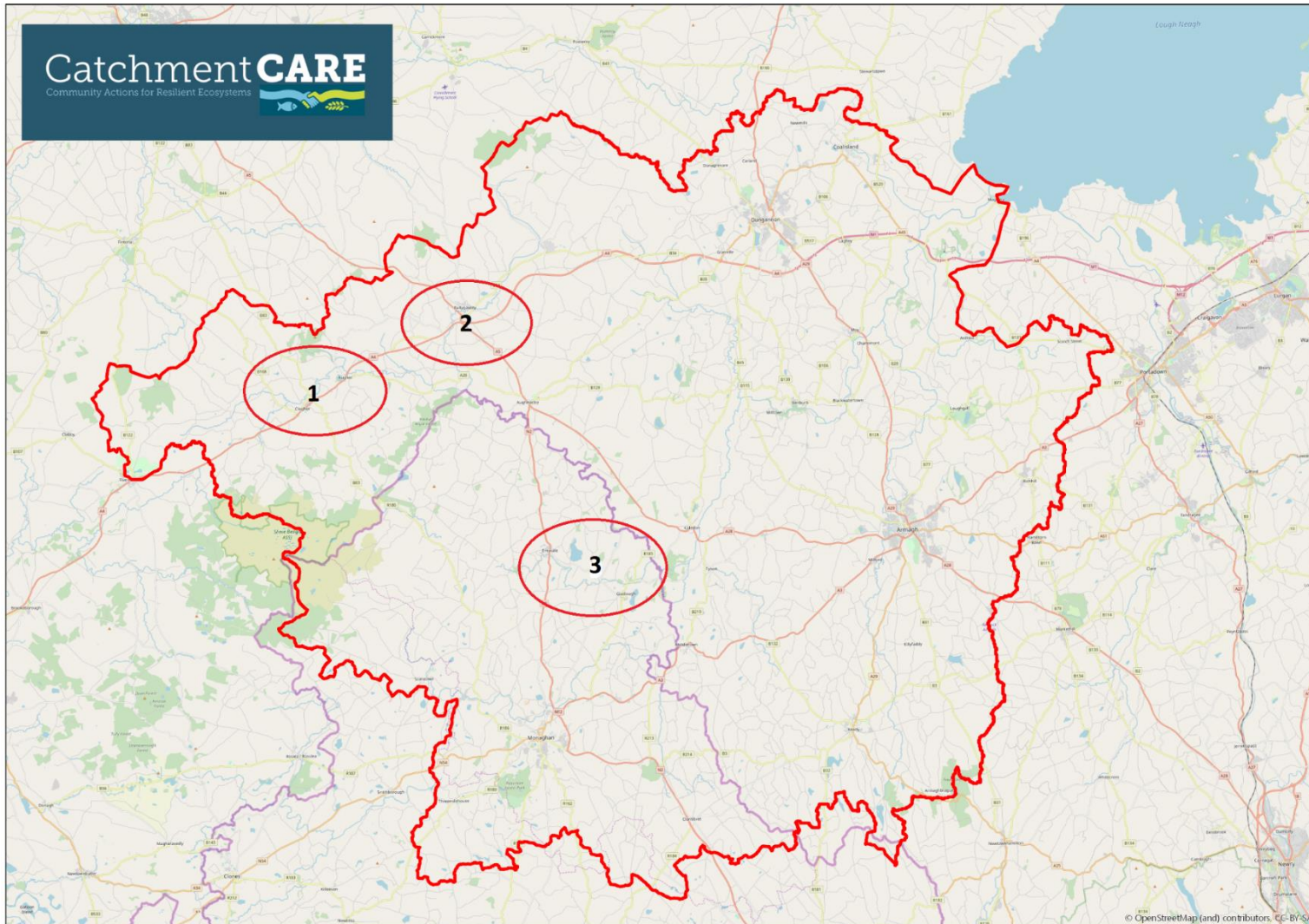


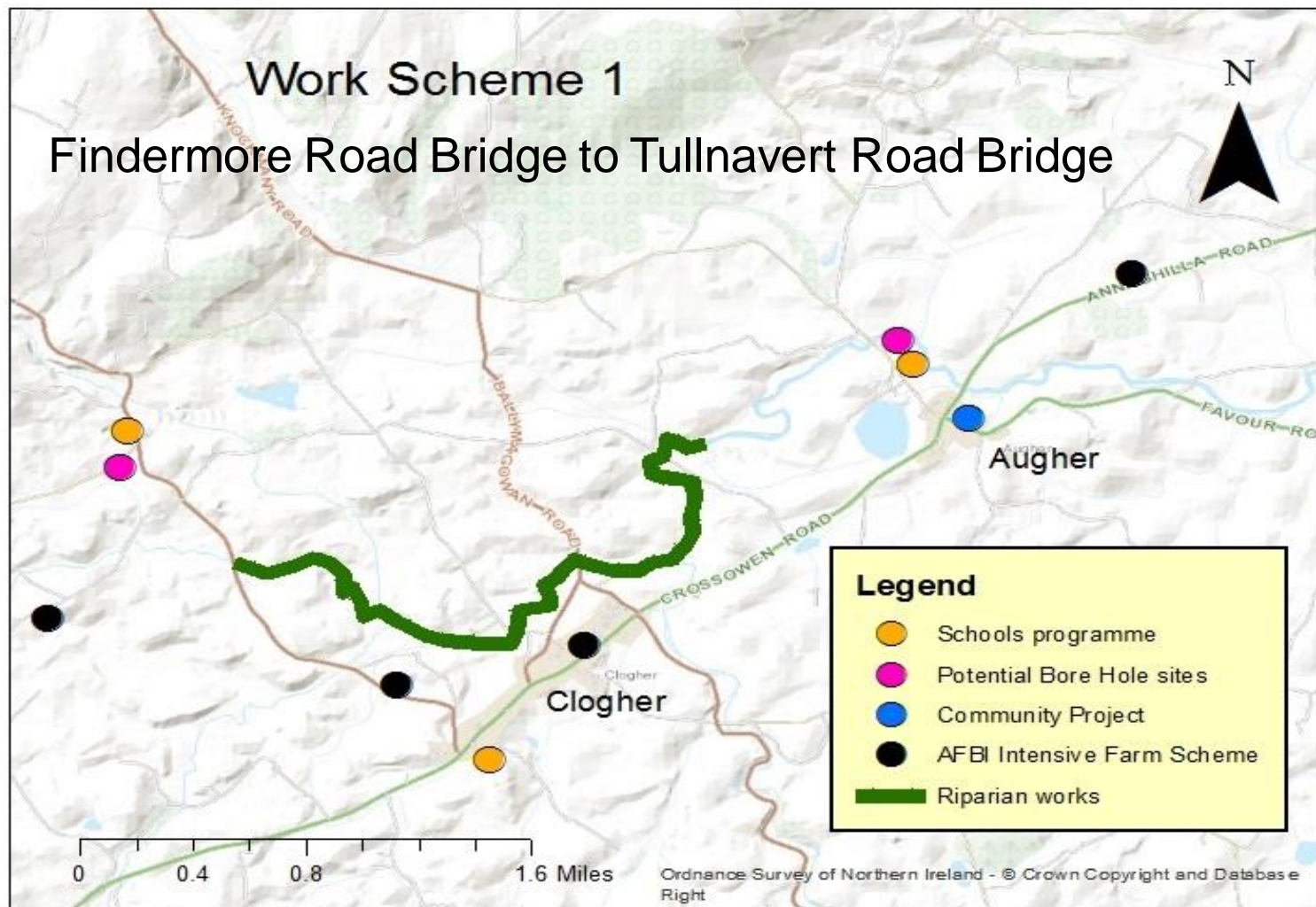
Bank failure due to Alder trees washed out

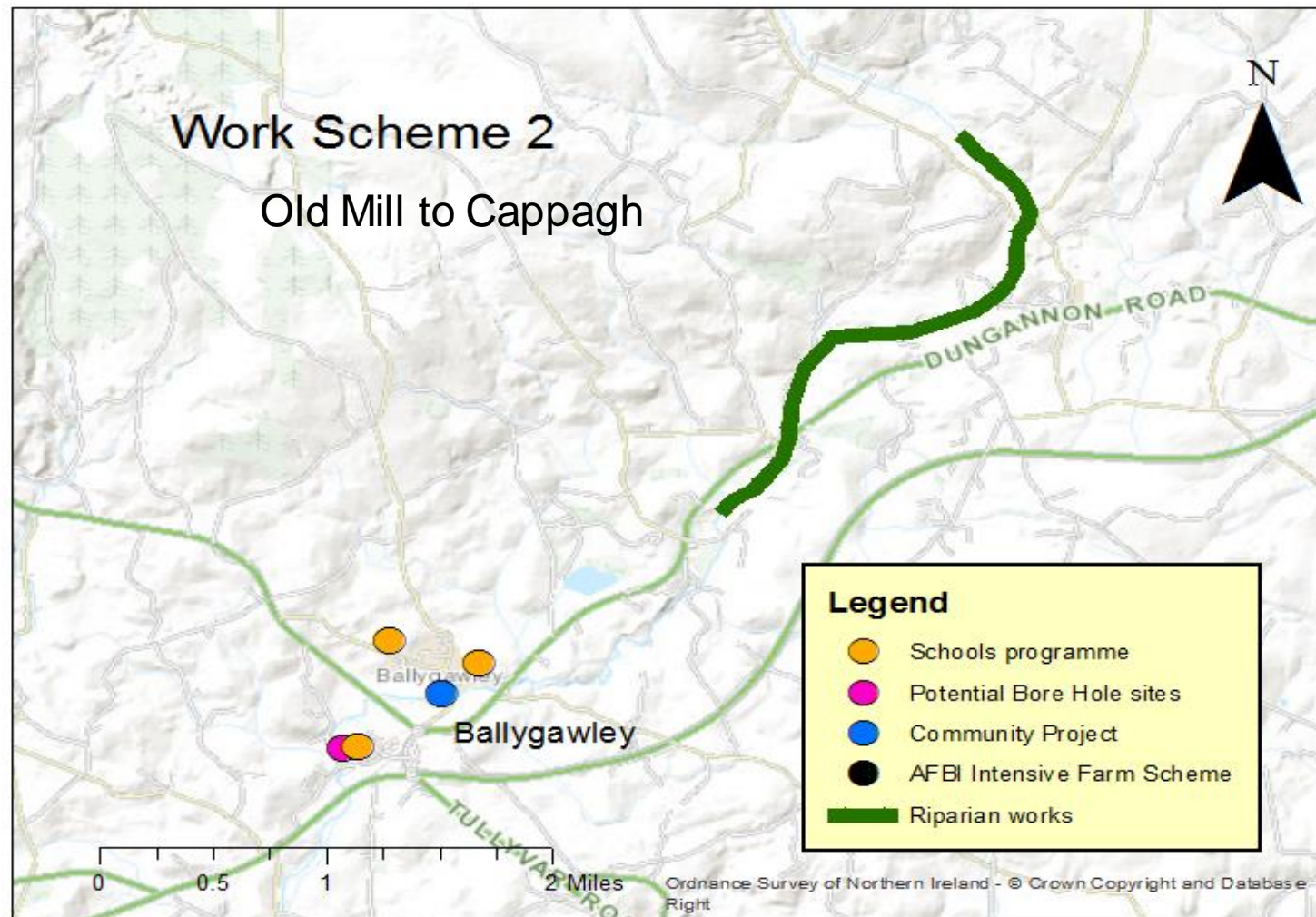


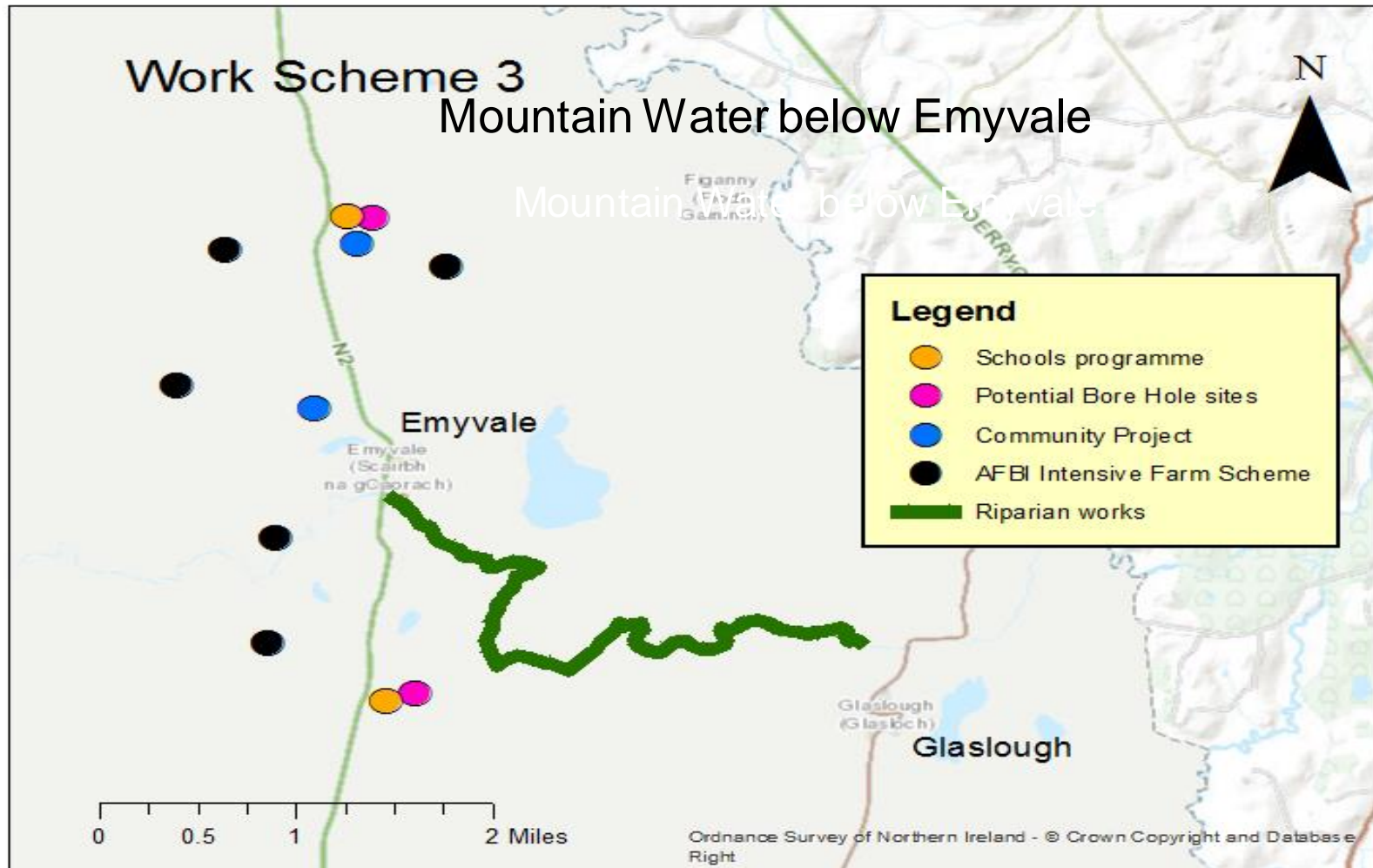
Severe erosion caused by lack of fencing, Fallen Alder, Cattle Poaching











THANKS FOR YOUR ATTENTION!

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