

National Federation of Group Water Schemes Phase II Source Protection Pilot Project

Teagasc Signpost Series Webinar

08th January 2021

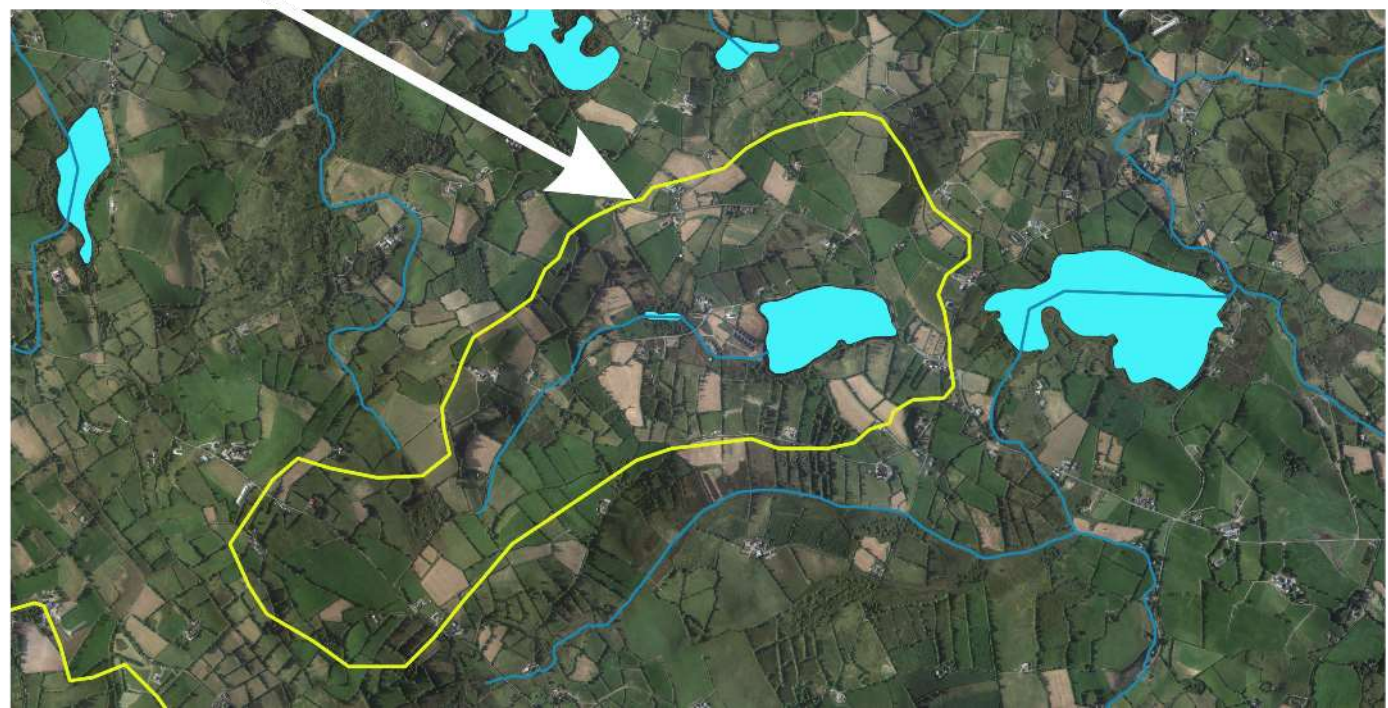
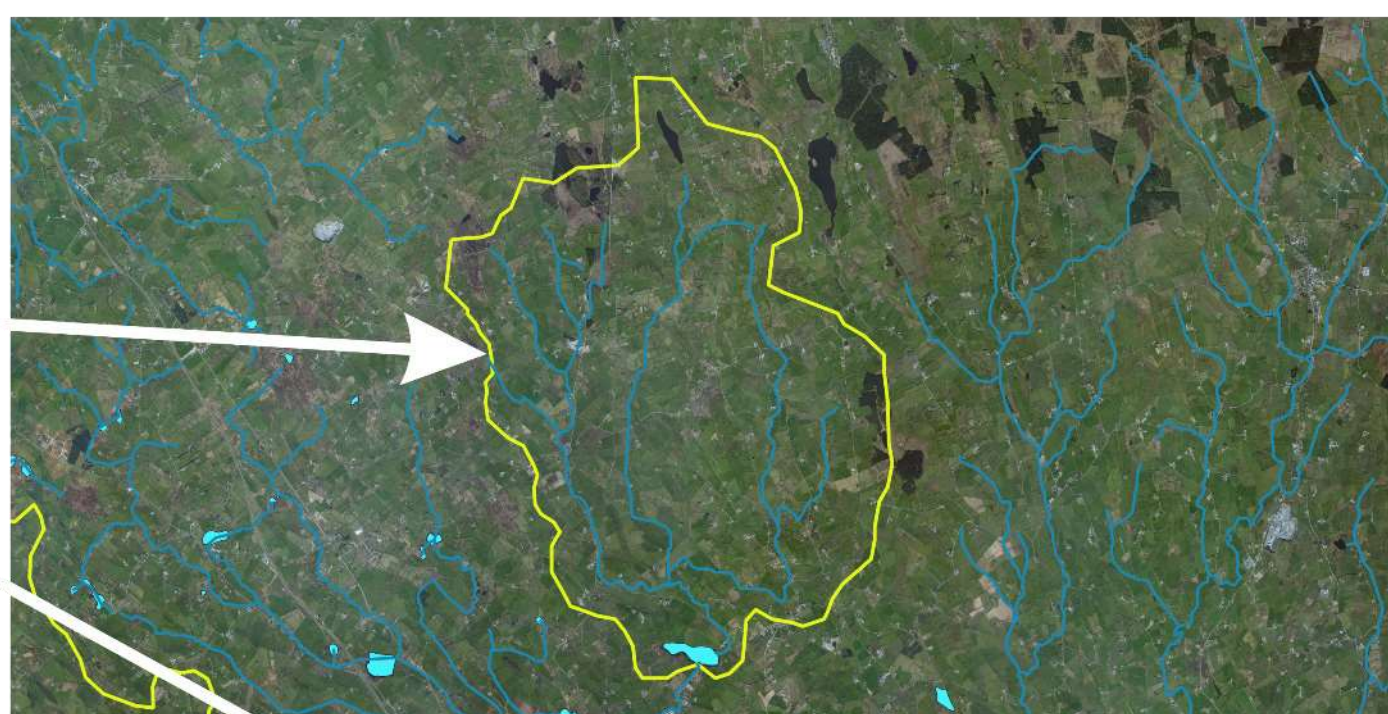
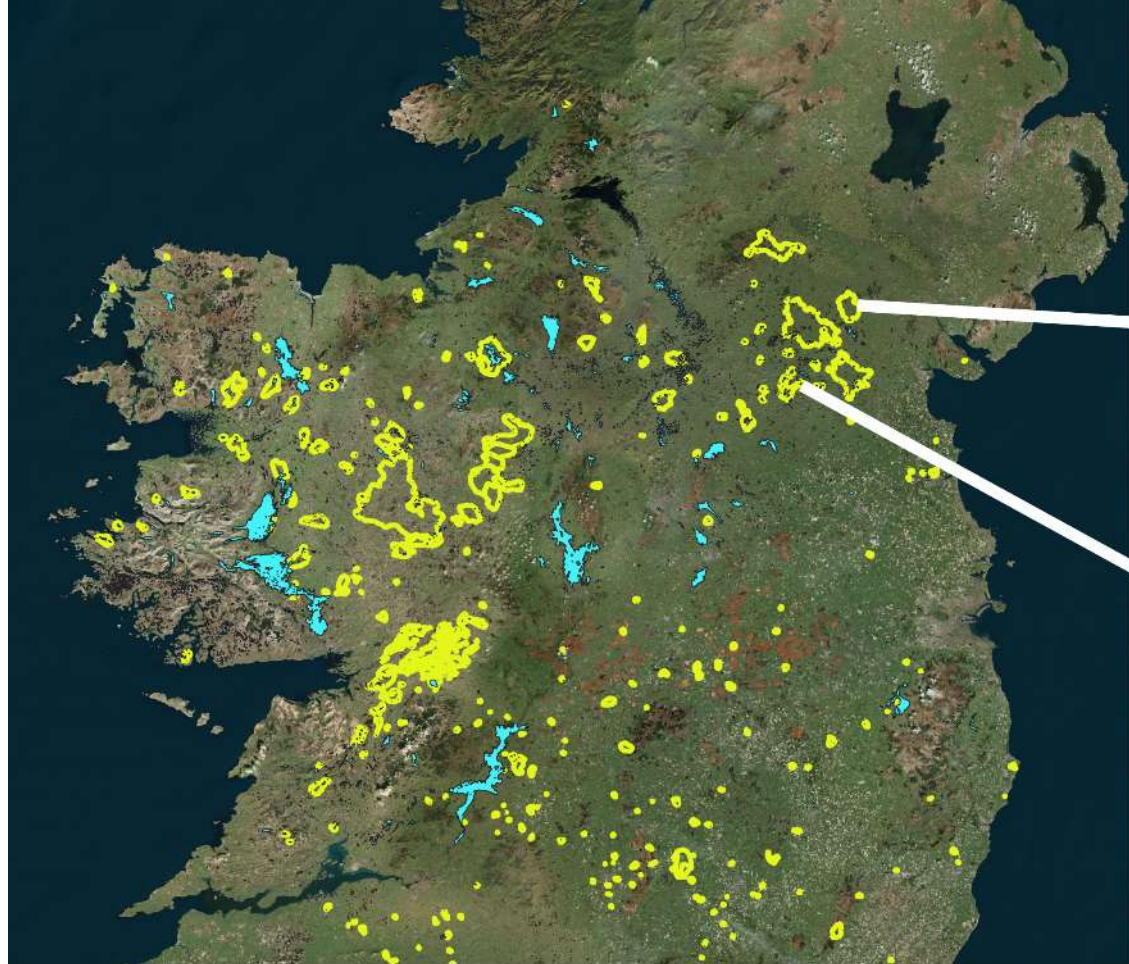
P. McCabe



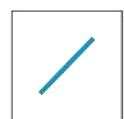


NFGWS – Background

- Community owned rural water sector;
- Formation of NFGWS in 1997;
- Rural Water Programme agreed in 1998;
- Stand alone GWS's & DBO Bundles;
- Guidance & support to the GWS sector



GWS Catchment / ZOC

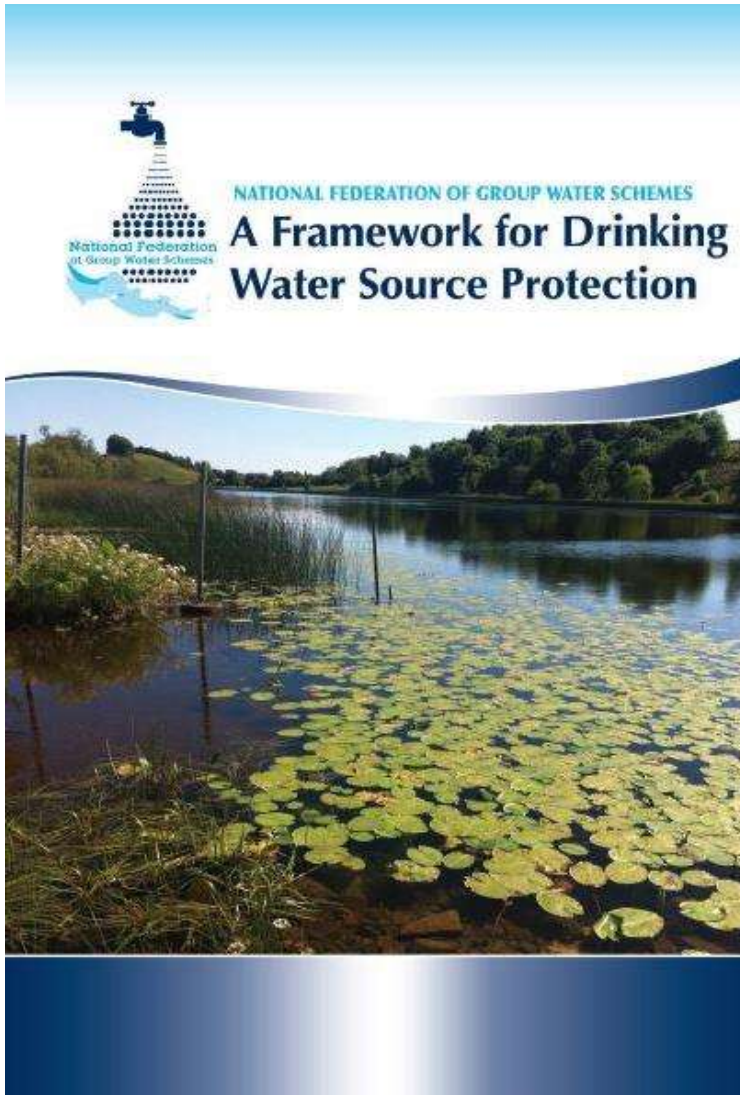


Stream / River



Lakes

NFGWS – Framework Document



- Developed as output from Source Protection Pilot Project in 2019
- Collaborative approach
 - Including ASSAP
- Connect with other characterisation approaches
 - EPA
 - Local Authority Waters Programme (LAWPRO)
- Targeting of the main issues and pressures
 - Protect objective
 - Improve objective
- Provide an easy to follow narrative

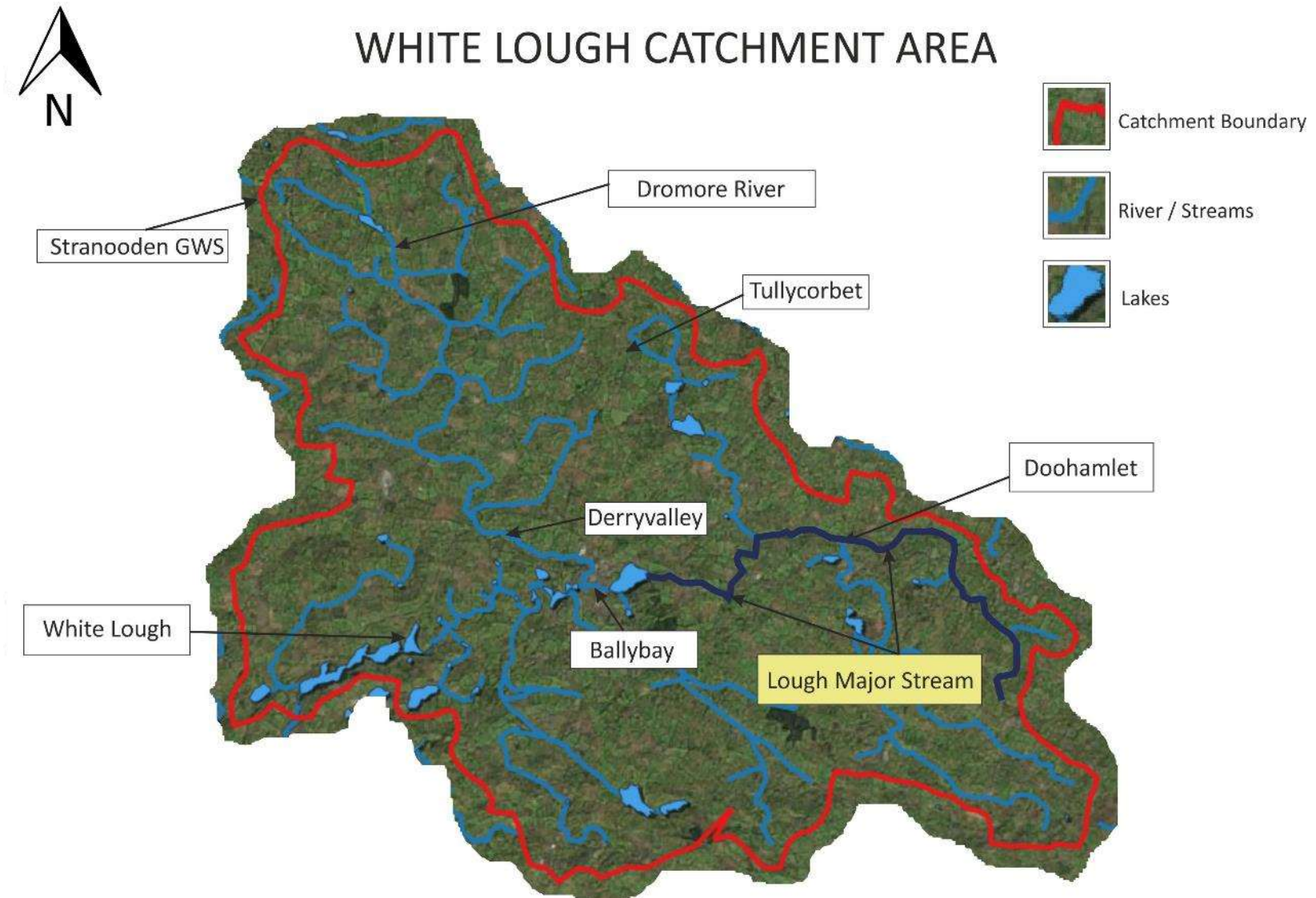


Evaluation of untreated water source quality

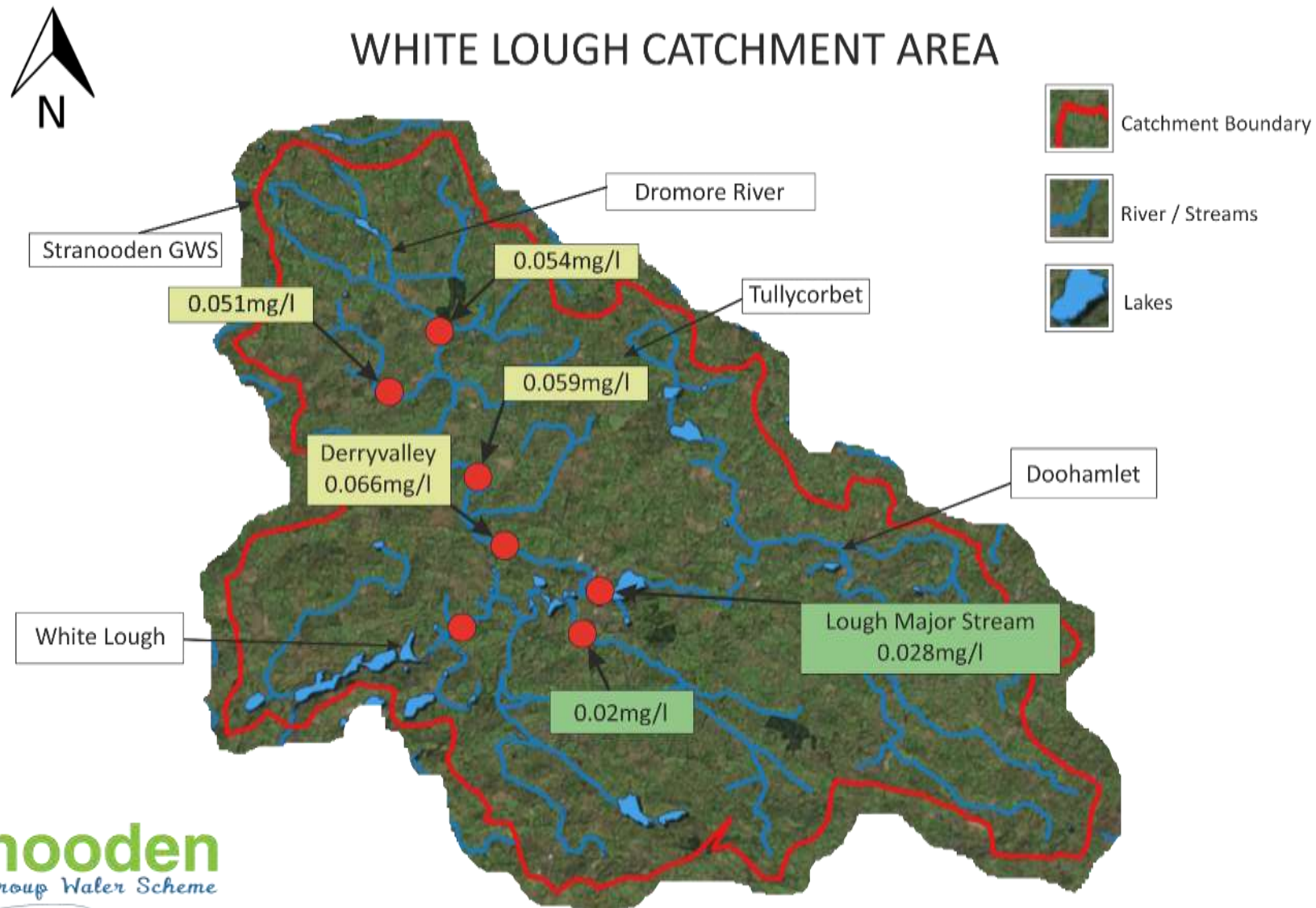
Parameter	Guide Value	Stranooden Untreated Water (White Lough, Co. Monaghan)	Source of Data
Nitrate	28 mg/l	1 mg/l	Stranooden GWS, Veolia & EPA Data (2018)
Ammonium	0.175 mg/l N	0.035 mg/l	Stranooden GWS, Veolia & EPA Data (2018)
Total Phosphorus	0.025 mg/l	0.069 mg/l	EPA Surveillance Monitoring 2018
Trihalomethanes (THMs)	100 ug/l	110 µg/l	Stranooden GWS Data (2019)
MCPA	0.075 ug/l	1.2 µg/l	Stranooden GWS Data (2018)



2. Delineation of catchment area



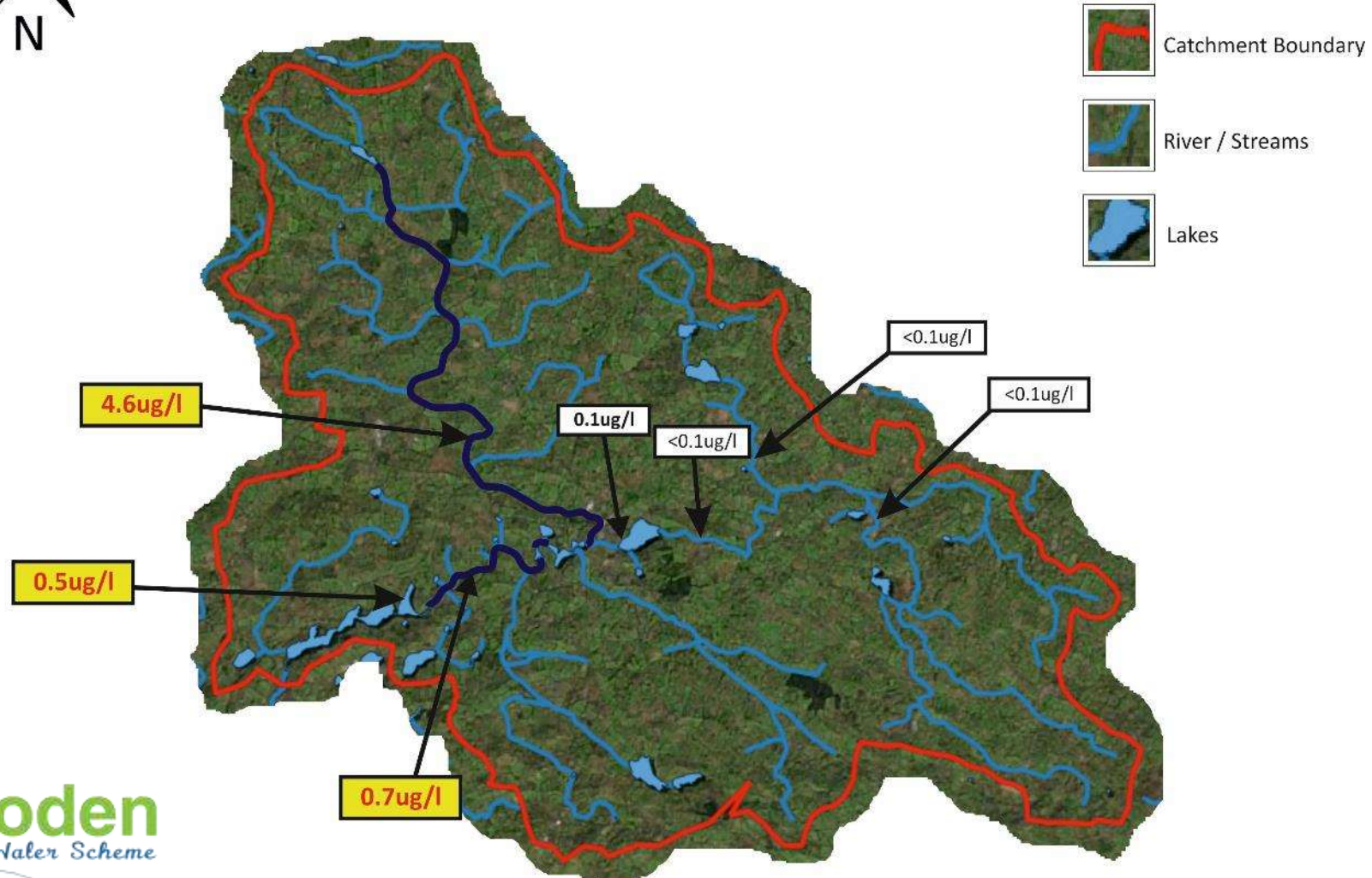
Catchment characterisation (Water Quality - Phosphate)



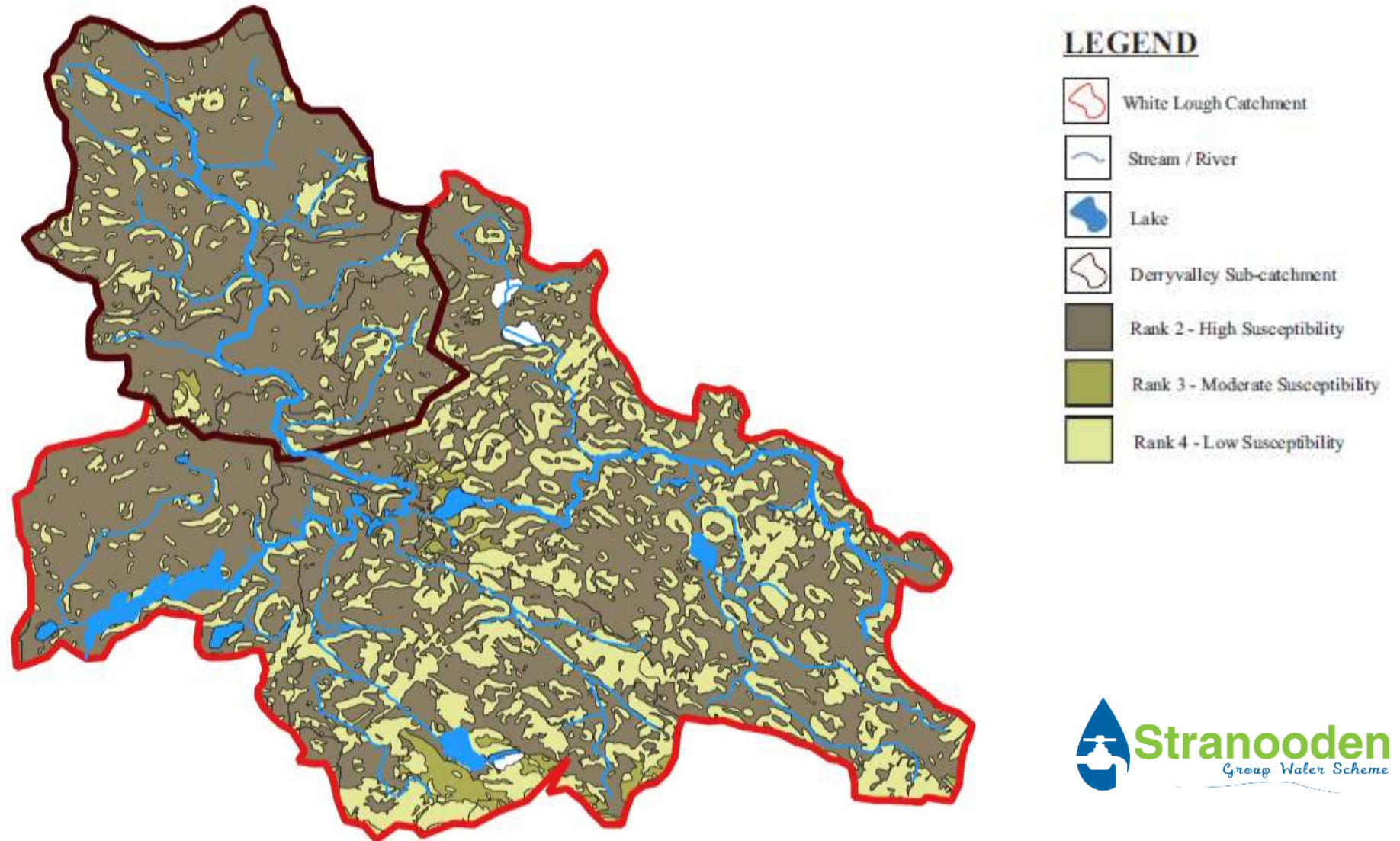
Catchment characterisation (Water Quality - MCPA)



MCPA Catchment Monitoring (12th June 2018)



Catchment characterisation (Susceptibility maps - Pathway)

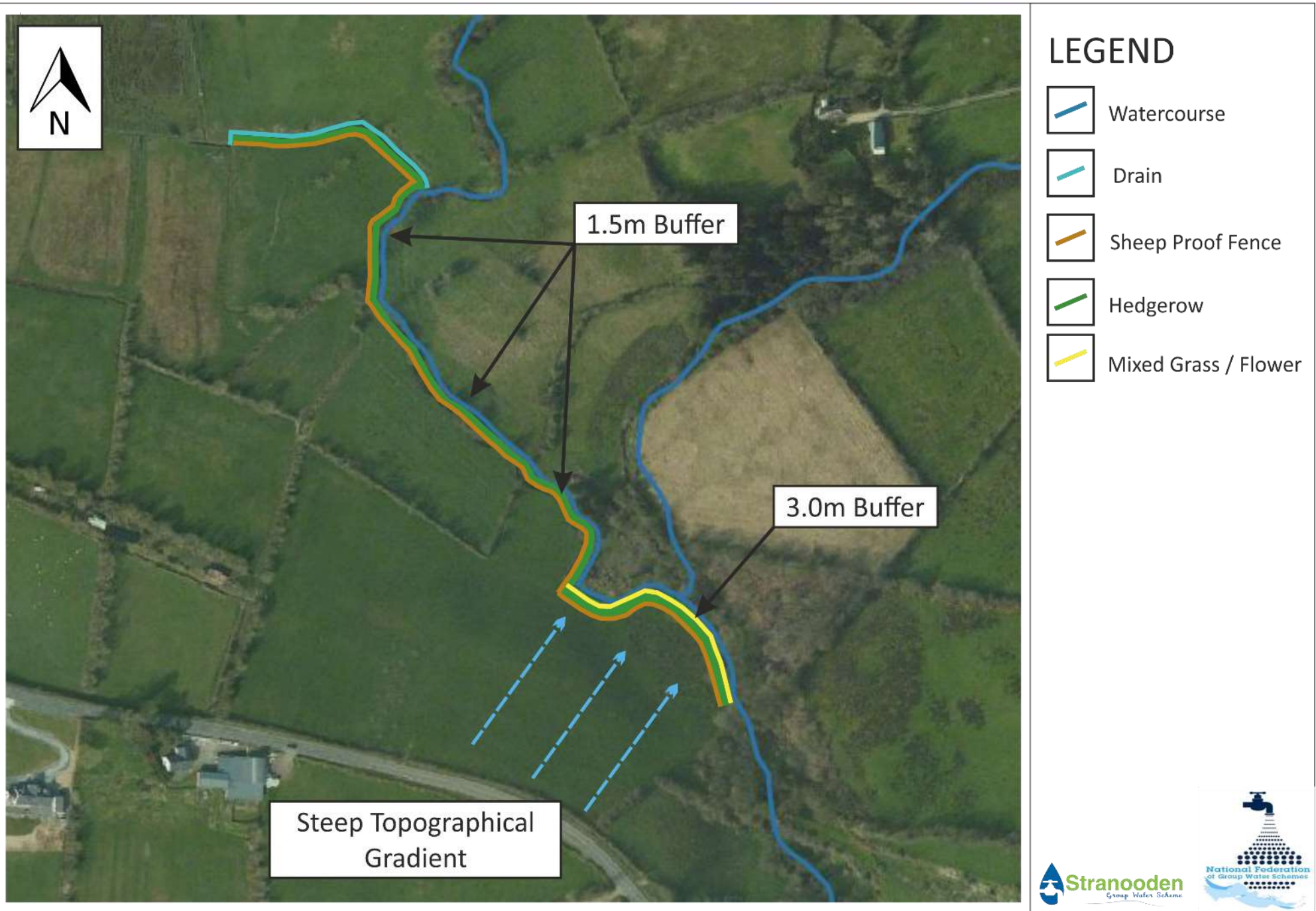


Catchment characterisation (Pesticide - Pathway)



Source Protection / Mitigation Measures





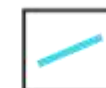
Source Protection / Mitigation Measures







LEGEND



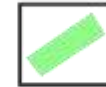
Watercourse



Approx. Fence Line



Hedgerow



Willow Buffer

Min. 1.5m Distance
Out

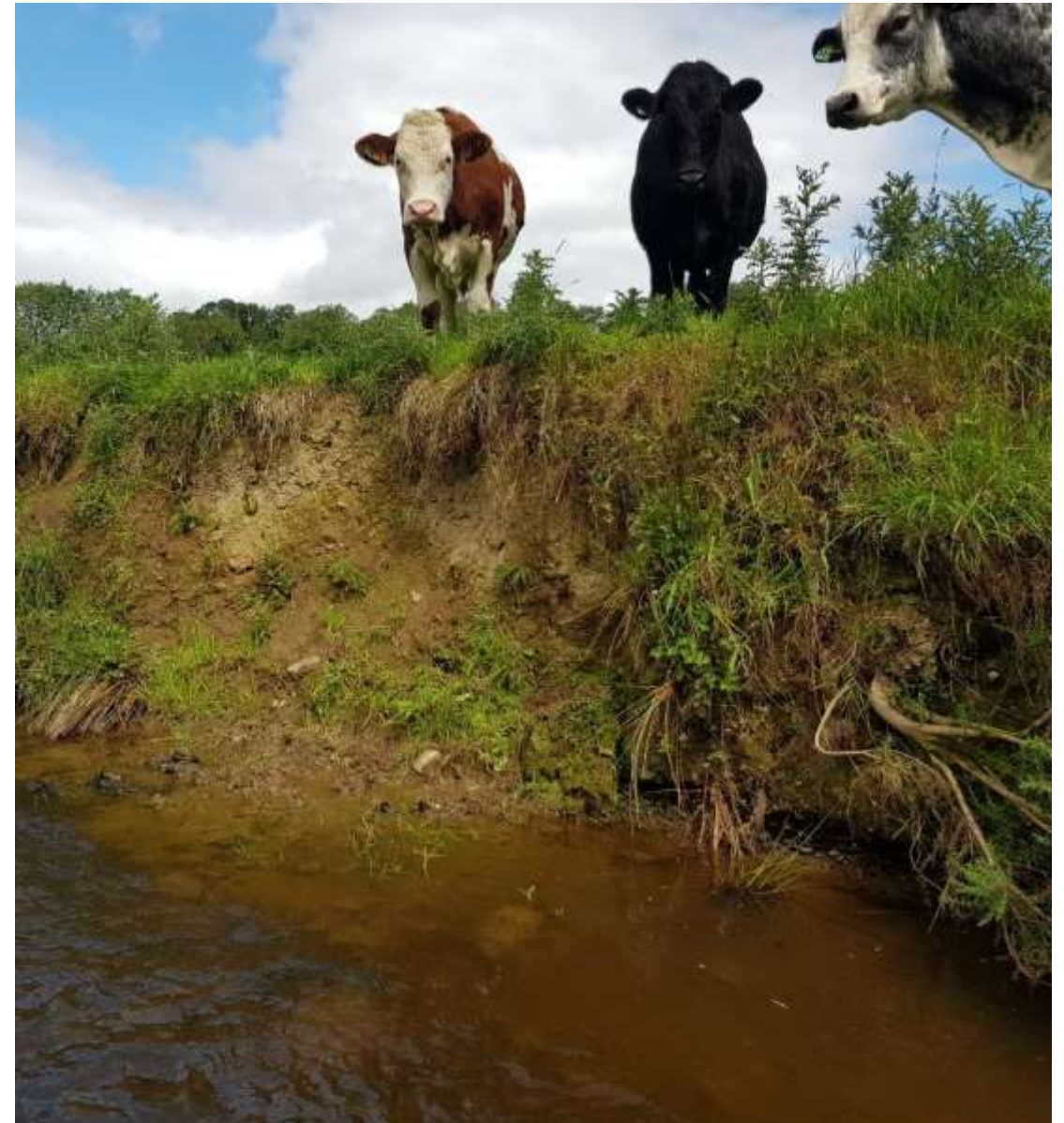
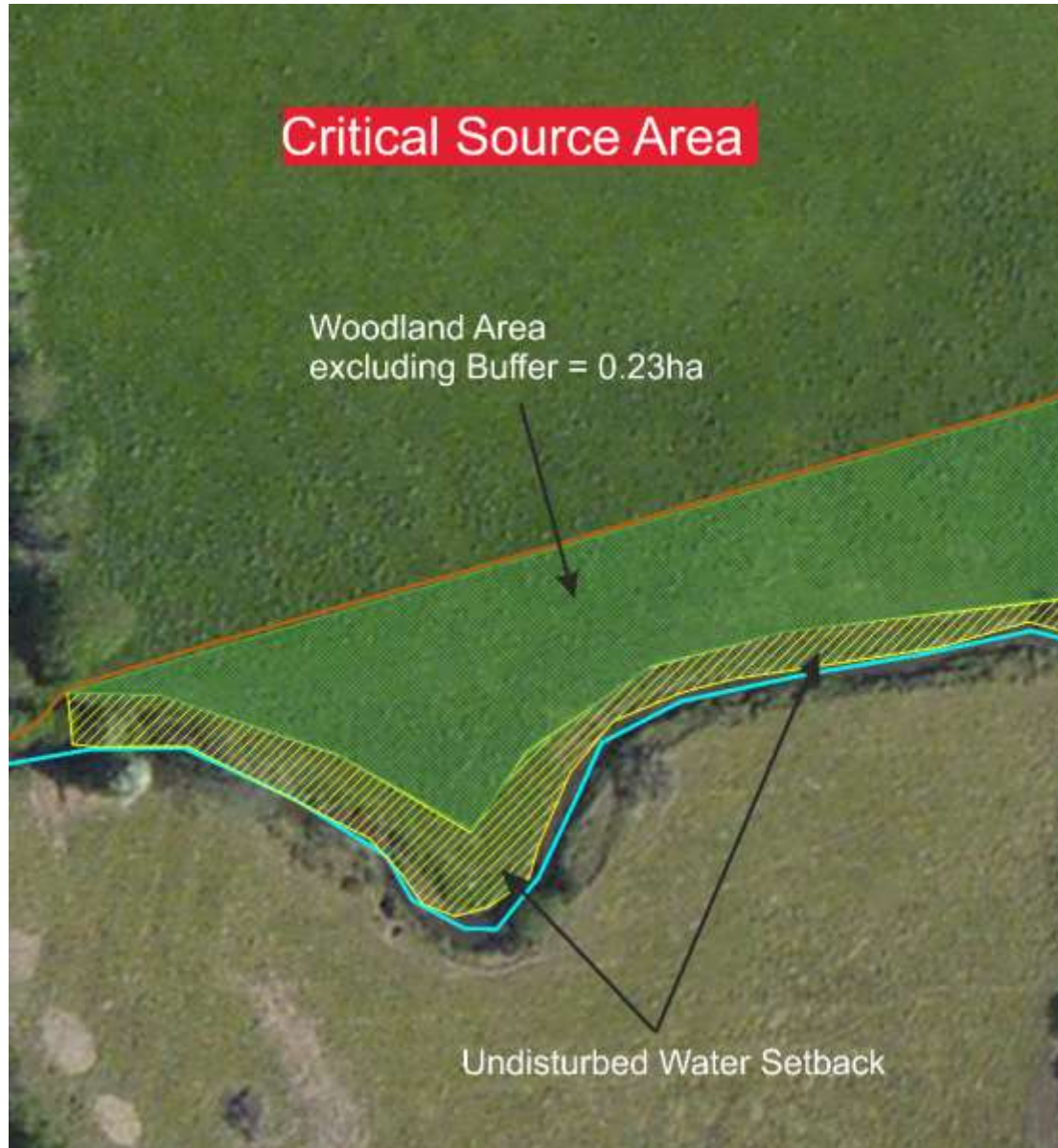
Approx. 12m
Distance Out

Project:

Dromore River/White Lough
Catchment Source Protection Pilot
Project

Sketch - NTS

Source Protection / Mitigation Measures



Monitoring Progress



'A Handbook of Source Protection & Mitigation Actions for Farming'



National Federation of Group Water Schemes

A Handbook of Source Protection and Mitigation Actions for Farming



Buffer zone left to establish along watercourse feeding into Greaghlone Lough, Magheracloone GWS

<https://nfgws.ie/wp-content/uploads/2019/06/Handbook-mitigation-actions-November-2020.pdf>