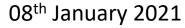
# National Federation of Group Water Schemes Phase II Source Protection Pilot Project

**Teagasc Signpost Series Webinar** 



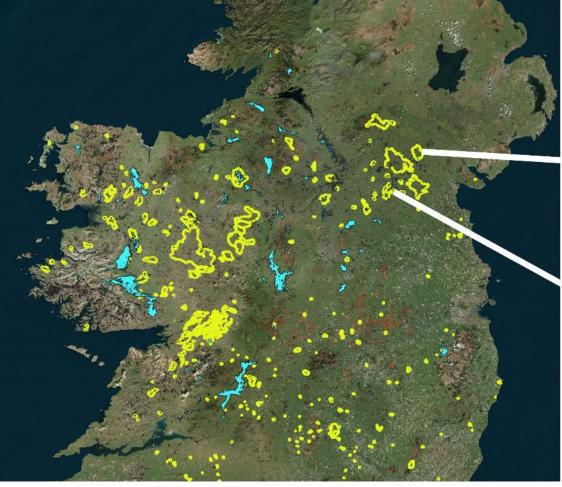
P. McCabe



# National Federation of Group Water Schemes

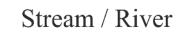
# NFGWS – Background

- 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



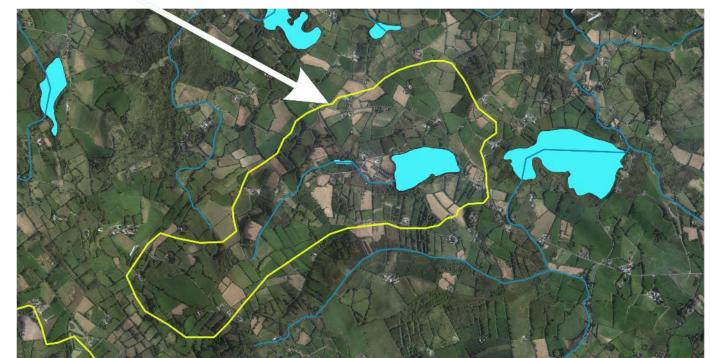


#### GWS Catchment / ZOC

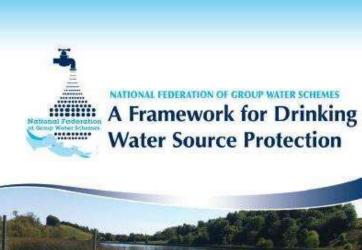


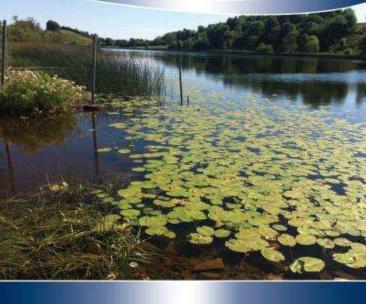
Lakes





# **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

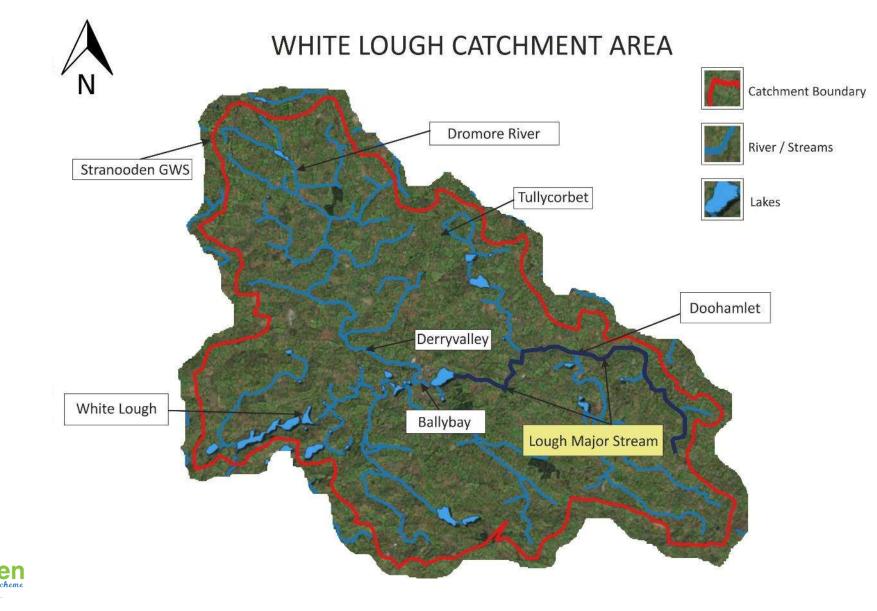


# **Evaluation of untreated water source quality**

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)

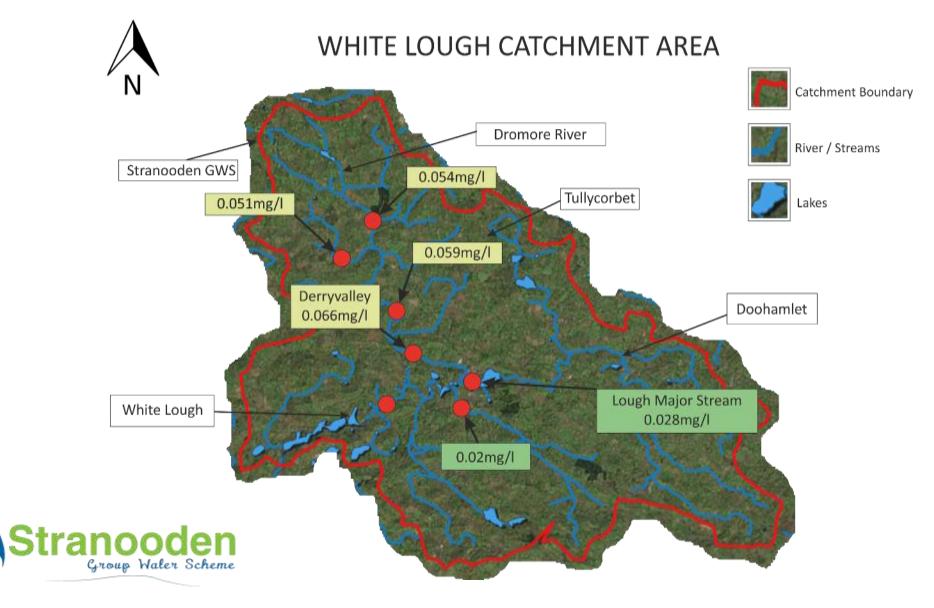


# **2.** Delineation of catchment area



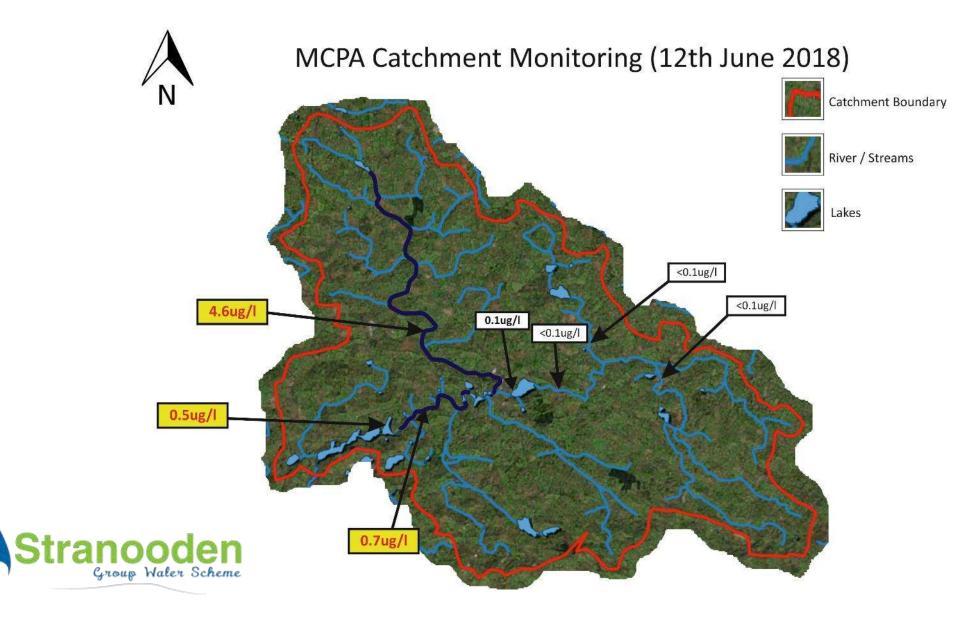


## **Catchment characterisation (Water Quality - Phosphate)**



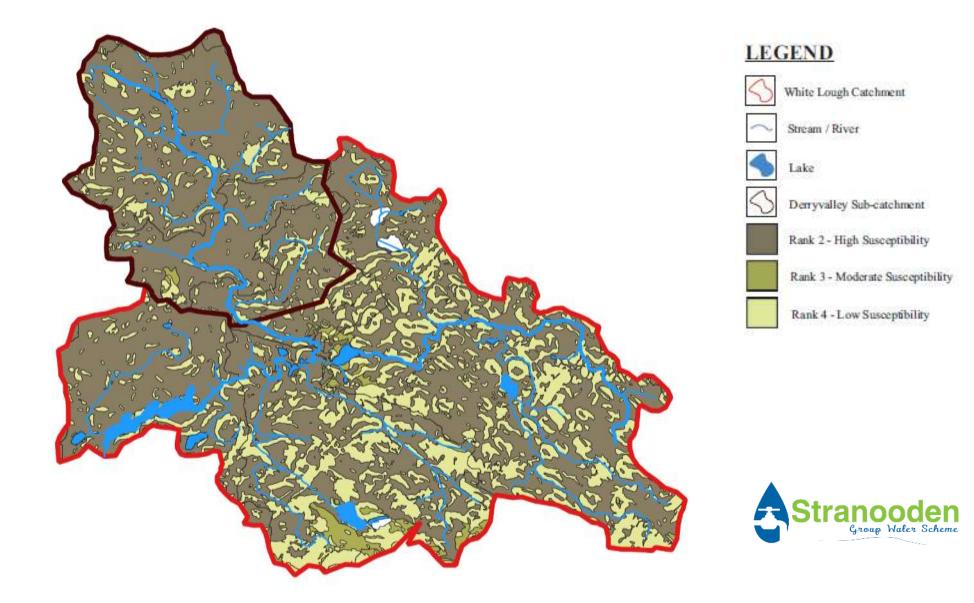


### **Catchment characterisation (Water Quality - MCPA)**



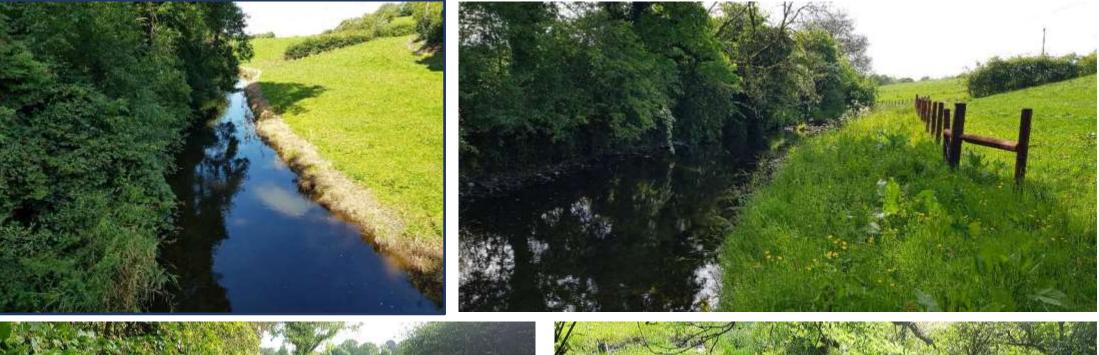


#### **Catchment characterisation (Susceptibility maps - Pathway)**





#### **Catchment characterisation (Pesticide - Pathway)**





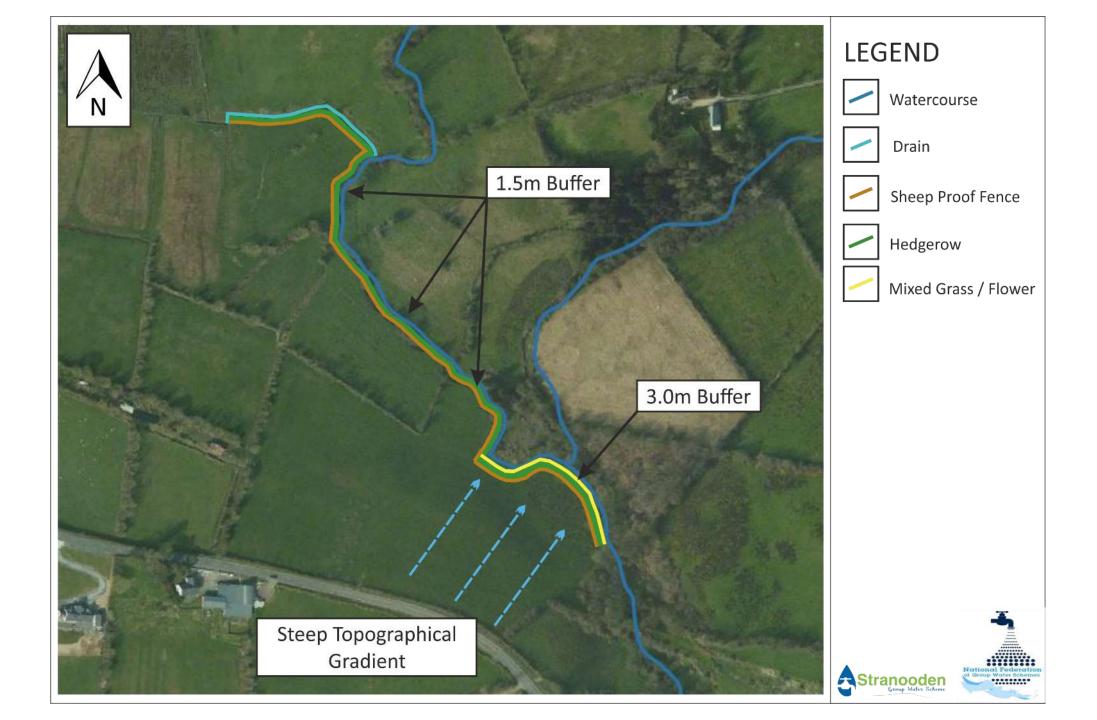


#### **Source Protection / Mitigation Measures**









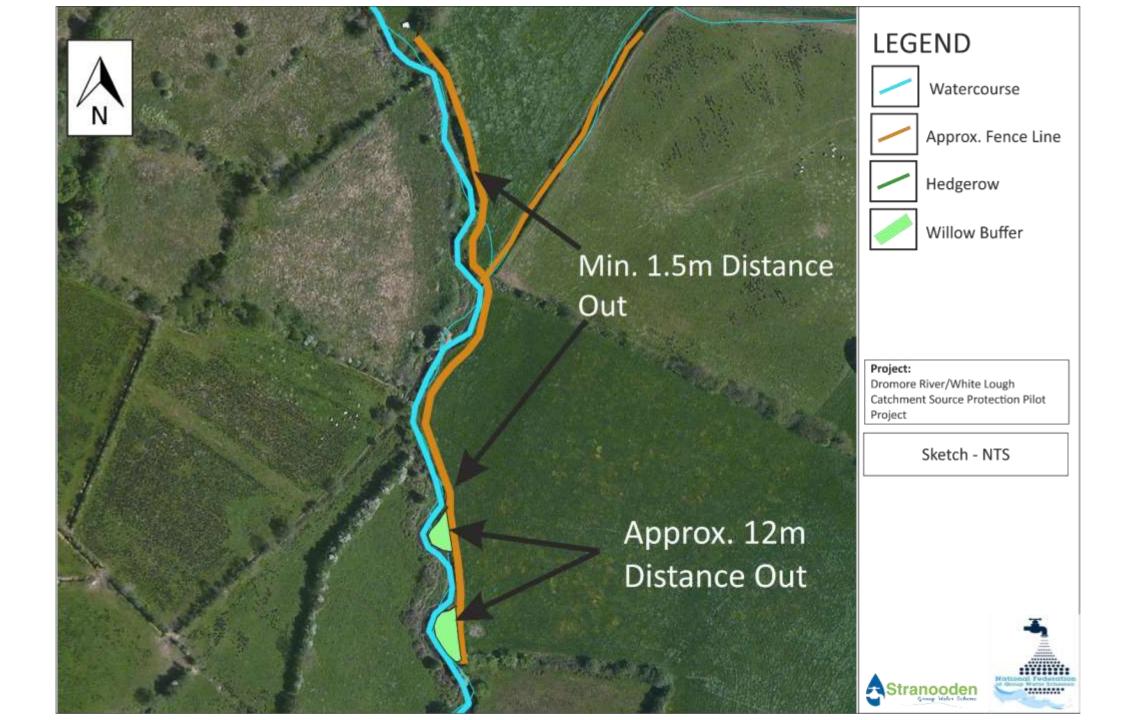
#### **Source Protection / Mitigation Measures**



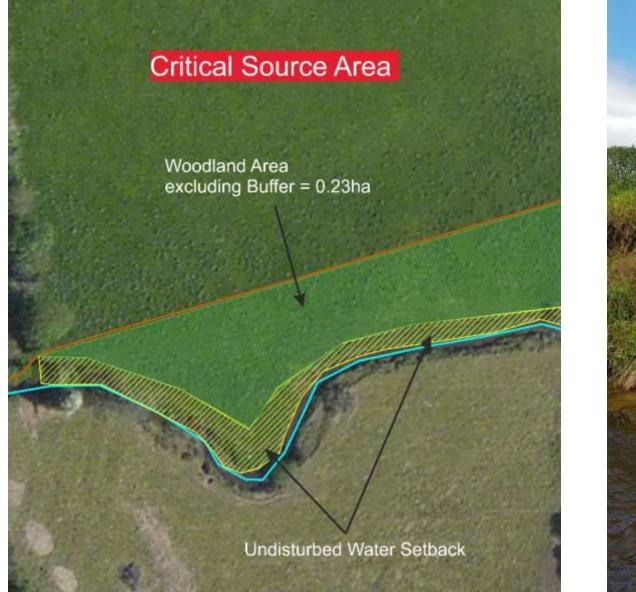


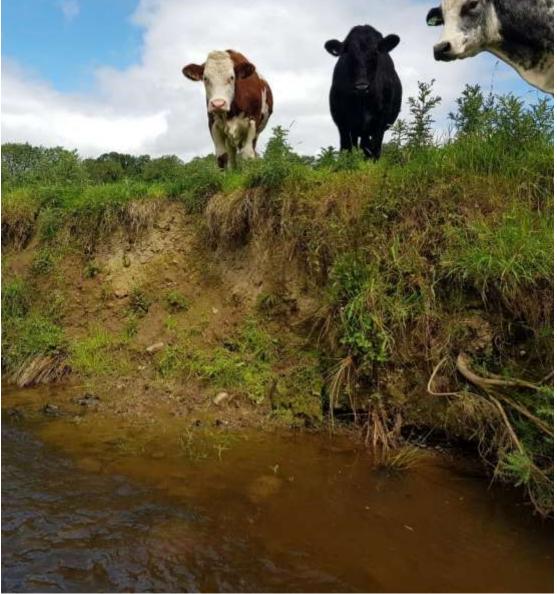






#### **Source Protection / Mitigation Measures**





## **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