UKILN Conference

Lakes — protecting, enhancing and restoring.



Westport 16th and 17th October 2019

Hotel Westport Leisure, Spa & Conference Hotel

http://www.ukandirelandlakes.org United Kingdom Ireland Lake Network







Lough Carra, Co. Mayo

Lake Local Catchment Assessments in Action

UK and Ireland Lakes Conference

Dr Bernadette White,

Catchment Manager Western Region, Local Authority Waters Programme

16th Oct. 2019



Overview

Improving Water Quality – Initiatives:

- What's driving the LA Waters Programme?
- Who are we and what are we doing?
- Water Framework Directive and River Basin Management Planning

Local Catchment Assessments – the steps?

- Deskstudy
- Community Information Meeting
- Catchment surveys
- Analysis of results & determination of referrals
- Delivery of Action Plan



What's Driving this Programme?

EU Water Framework Directive (WFD) 2000

EU Legal framework to protect and restore clean water across Europe by
 2027

How? Preparation of River Basin Management Plans over three cycles

1st Cycle: 2009-2015 (minimal community engagement)

2nd Cycle: 2016-2021

3rd Cycle: 2022-2027

..... "to achieve good ecological status (good water quality) in all waters and retain high status".....

High
Good
Moderate
Poor
Bad

2014 Regulations provided new role for Local Authorities



Local Government Role

2014

- Increased responsibility for Local Government
- Regional coordination of implementing bodies
- Public engagement and catchment assessment responsibilities
- Driving the implementation of mitigation measures at Catchment Level

2015

- 2015 business case for Local Authority Shared Service
- Tipperary Co. Co. & Kilkenny Co. Co. joint lead on Shared Service
- LA Communities Team coordinate implementing bodies & engage with communities
- Significant input to preparation of 2nd River Basin Plan

2017

- 2017 business case for further Shared Service
- LA Catchment Assessment Team support implementation of RBMP through catchment assessment & referrals to implementing bodies

2018

- Services merged 2018
- Local Authority Waters Programme established (Communities Team + Assessment Team)
- Working together to improve water quality



Structure of LAWPRO



vibrant communities | catchment assessment | healthy waters



Communities Team (2016)

- 3 Regional Coordinators
- 13 Community Water Officers

KEY ROLE:

Community engagement –

encouraging communities to value water in their catchment and to participate in actions to **protect water**

Catchment Team (2018)

- 1 Catchment Assessment Lead
- 5 Catchment Managers
- 30 Catchment Scientists
- 1 Blue Dot Scientist

KEY ROLE:

Scientific assessments -

identify the right measure in the right place to help **improve water quality**



Comhairle Contae Ros Comáin Roscommon County Council

Sample of the Implementing Bodies







An Roinn Tithíochta, Pleanála, Pobail agus Rialtais Áitiúil Department of Housing, Planning, Community and Local Government













Agriculture, Fisheries and Food

Talmhaíochta, Iascaigh agus Bia







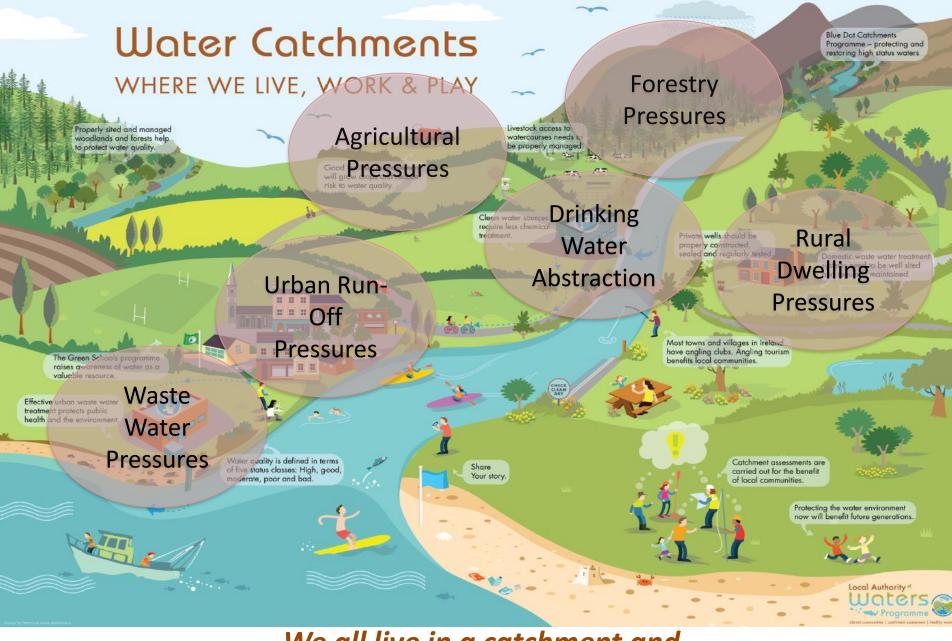








National Parks & Wildlife Service

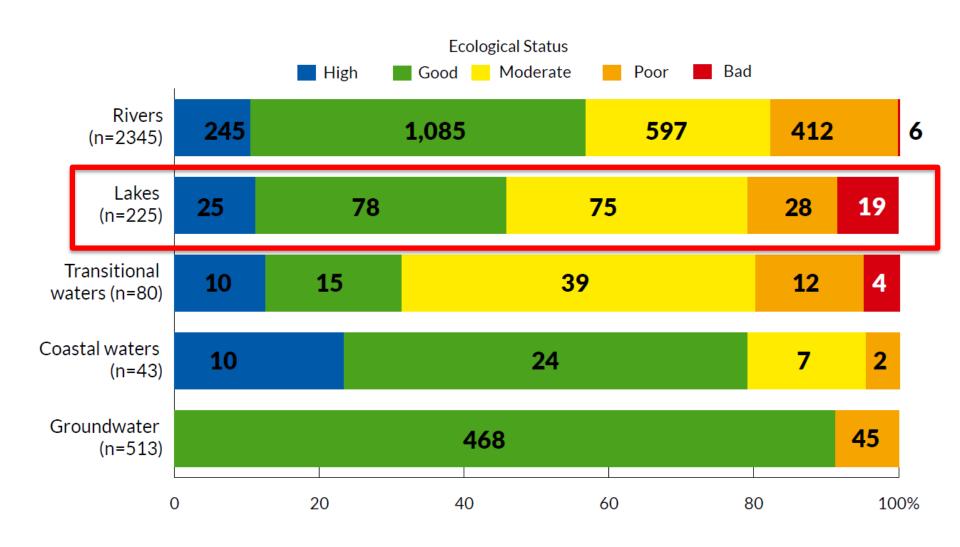


We all live in a catchment and

what we do impacts on our water quality...

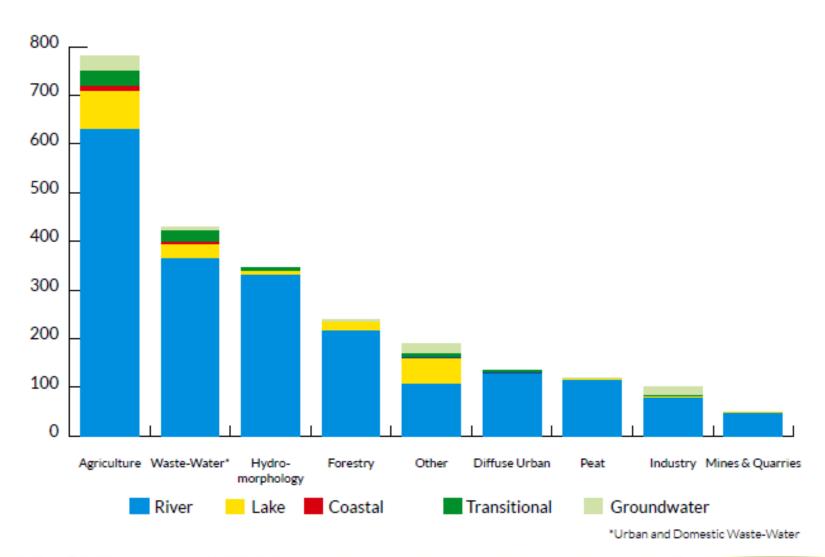


Scale of the Issues: Ecological Status





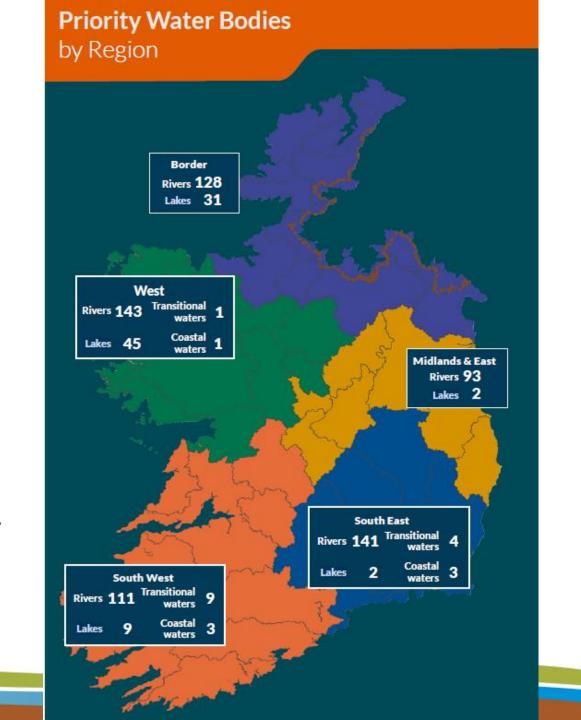
Significant Pressures





Our Work: The Statistics

- Western & Border
 Region have highest
 proportion of lakes in
 PAAs
- 90 lakes within PAAs for further characterisation
- 44 lakes with no water quality data (unassigned)





What do our assessments look like?



Reporting

WFD App Area for Action Report Priority Areas for Action

Desk Study

Water Quality Local projects Engagement activity

Measures

Agreement Resources Timeline Local Catchment
Assessment
Process

Conceptual understanding

Identify cause of Significant pressures

Field Investigations

Kick sampling WQ sampling Stream walks

Communications

Public Meeting Radio/Newspaper interviews



PAA Desk Top Study



Desk Study for

Carrowmore

Priority Area for Action

Willena Boukelia Western Team



 Receptor Information and assessment

Significant Pressures

 Pathway Information and Analysis

Identification of data gaps



PAA Summary

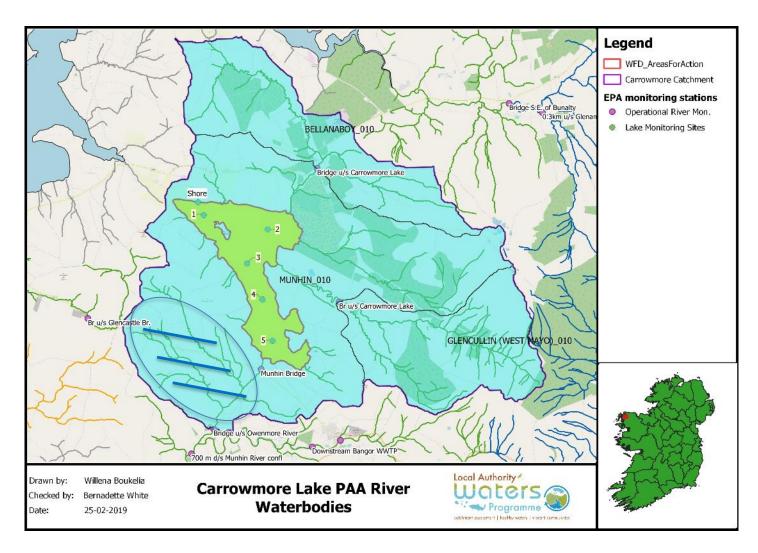
WB Code	WB Name	WB Type	Risk	High status obj.	2009 Ecol. Status	2012 Ecol. Status	2015 Ecol. Status	2017 Biol. status	Pressure Category	Pressure Subcategory	Significant Pressure	Action	Responsible Organisation
IE_WE_ 33M030 200	MUNHIN_010 (outflow)	River	Not at Risk	No	G	G	G	G	None	None	No	None	
IE_WE_ 33B070 200	BELLANABOY_01 0	River	Not at Risk	No	G	G	G	G	None	None	No	None	
IE_WE_ 33G030 100	GLENCULLIN (WEST MAYO)_010	River	Not at Risk	No	G	G	G	G	None	None	No	None	
	Carrowmore	Lake	At No Risk		М	М	M	М	Extractive Industry	Peat	No	IA1 Provision of Information	Mayo County Council
IE_WE_ 33_191 4				No					Agriculture	Pasture	Yes		
				140					Forestry	Forestry	Yes		
									Agriculture	Agriculture	Yes		

^[1] Munchin_010 RWB is monitoring only for the outflowing rivers and not the inputting Munchin_010 rivers.

Watching brief: Slurry spreading has been limited by Mayo CoCo in steep sloping fields in north west corner of lake as part of nutrient management plans. Sig pressures are Ag and forestry. Source Protection Zone also to be assigned given the Erris regional water supply which supplies most of north Mayo. Monitor potential impacts from Forestry.

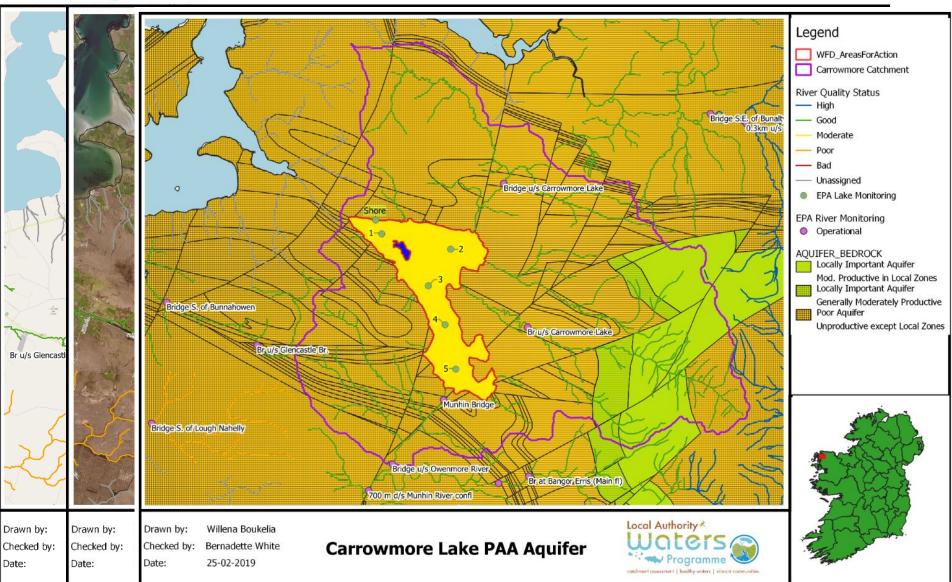


Defining the Catchment





Conceptual Modelling – water & contaminant flow





vibrant communities | catchment assessment | healthy waters



COMMUNITY INFORMATION MEET CARROWMORE LAKE HELP PROTECT YOUR LOCAL LAK

VENUE	DATE	TIM
	4th April 2019	7.3 8.3

Refreshments afterwards.

At present, water quality in Carrowmore Lake is not a as it could be. You are invited to an information meet hear about plans to improve water quality in this loca There will be an opportunity for questions and discuss with the people who will be working in your local cate This is a new approach to water quality and everyone play their part.

The catchment area for Carrowmore Lake stretches from the townlands of Carnhill to Glencullin Upper and fro Cloontakilla to Carrowmore.

For more information contact:

Bernie White (085 8030094/bwhite@lawaters.ie) o Mick Kane (085 8083064/mkane@lawaters.ie) Or www.watersandcommunities.ie

Or visit www.watersandcommunities.ie



Community Information Meeting

Carro **Priority**

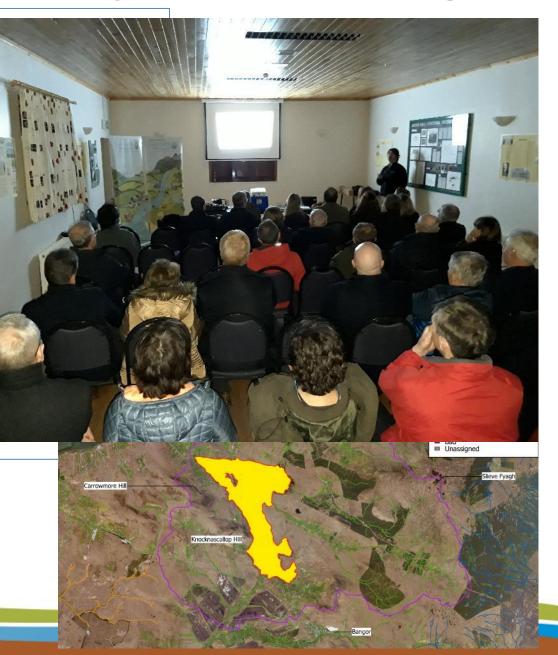
The Carrowmore Lake ca Western Region (Galway) selected as a Priority A Management Plan for Ire

Staff from the Local Waters Programme undertake a local ca assessment in this catch try to identify causes quality deterioration and areas where actions taken to improve water

Any actions taken to water quality will be call in collaboration with all public authorities, land and interested groups catchment.

Carrowmore Lake was reasons:

- · One Lake water body objectives
- · Failing to meet its pro
- · Important for Inland I
- · Important local amen
- · Building upon previou forestry practices.





Agricultural Sustainability Support & Advisory Programme (ASSAP)

- ASSAP a free farm advisory service
- 20 Teagasc Advisors (50/50 by DAFM & DHPLG)
- 10 Advisors provided by the Dairy Industry
- Managed by Teagasc Team Leader
- Coordinated by LAWPRO/Teagasc/Dairy Industry







ASSAP Farmer Meetings

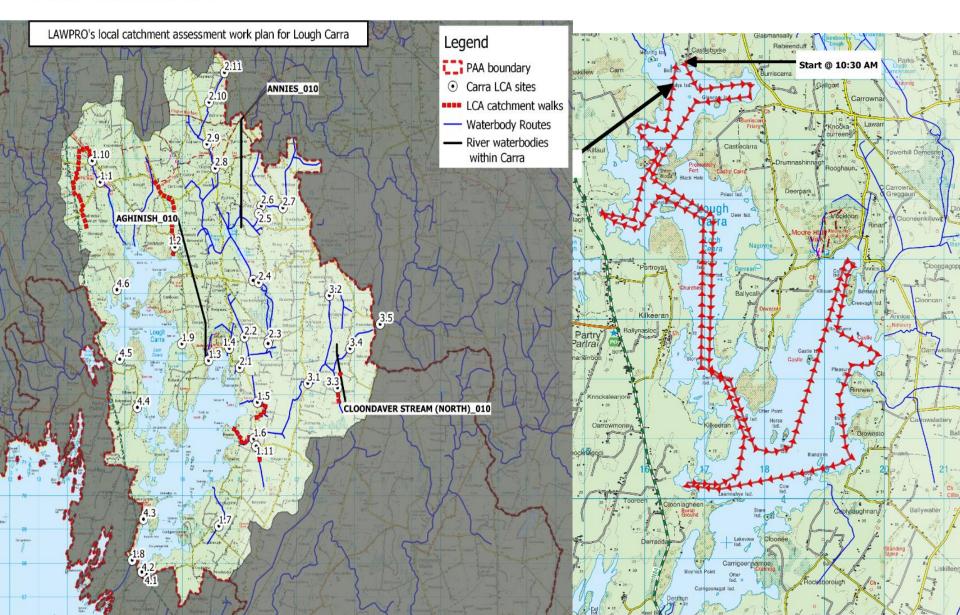




- Farmers only meetings (following-on from public meetings)
- Presentation from Teagasc Advisors and Catchment Assessment Team
- Explanation of surveys & overall programme including equipment & mapping on display

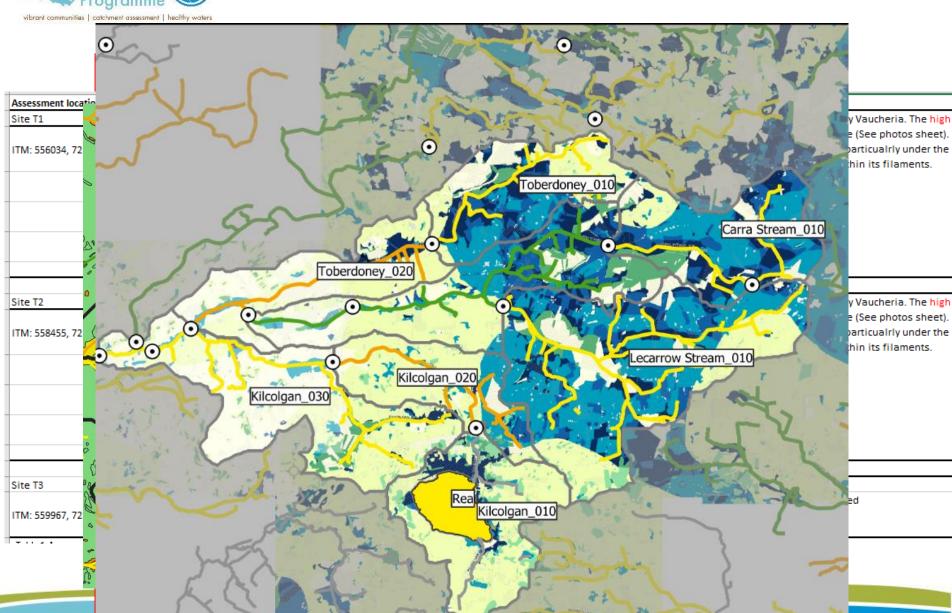


Catchment Assessment Planning





Results = Scientific Evidence Base for Actions





Referrals to Implementing Bodies = Action Plans

Home / Current Characterisation Summary / Further Characterisation / Waterbody: Carrowmore

Step 1
Desk Based Study

Step 2 Field Assessment Step 3
Specialist Assessment

Step 4
Refine Significant Pressures
& Mitigations

Step 5 Conclusions

Name Carrowmore

Code

IE_WE_33_1914

ld FC001028

Last updated by EDEN System User

Last updated on 09/07/2019 08:19:33

Tier 2 Assessment - Summary Information

Action IA1 Provision of Information

Description Watching brief: Slurry spreading has been limited by Mayo CoCo in steep sloping fields in north west corner of lake as part of

nutrient management plans. Sig pressures are Ag and forestry. Source Protection Zone also to be assigned given the Erris regional

water supply which supplies most of north Mayo. Monitor potential impacts from Forestry.

Significant Pressures

Code 1	E Category ↓↑	Subcategory 11	License Status 👫	Code I1	Name I1
WBP0003916	Agriculture	Pasture	n/a	n/a	n/a
WBP0003917	Forestry	Forestry	n/a	n/a	n/a
WBP0006406	Agriculture	Agriculture	n/a	n/a	n/a



Information & Contact details

- www.watersandcommunities.ie
- www.catchments.ie
- bwhite@lawaters.ie



Western Team

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