Farmer ID: Surveyor: Survey date:

Note on determining overall whole-farm result: The result of the whole-farm assessment is the lowest score (0.3, 0.6, 1, or 1.2) achieved in any of the individual sections A-E below.		Overall whole-farm result:	
		Poor 0.3	Good 1
		Inadequate 0.6	Excellent 1.2
A Farmyard Assessment (see over		·	Mar to all
Do any of the following items presen	t a risk to watercour	'ses! (please tick)	Yes (0.6) No (1.2)
Silage Pit Separation of clean & dirty water	Slurry storage	Diesel / oil tanks	Other If 'Other' please specify:
Round bale Livestock handling storage areas	Farmyards	Loose houses - effluent being collected	
Gutters & Farmyard manure storm drains	Sheep dipping & spread area	Inappropriate use of pesticides	
B Farm nutrient balance indica	tor (for farms with s	lurry storage only, see overlea;	f for further explanation)
Extent of suitable (trafficable) spread lands (X)?			ha
Number of livestock units housed over winter (Y)?			LU
Ratio of available spread lands to min	imum required sprea	ad lands [X /(Y*0.506)]:	
Result of farm nutrient balance assess			
Poor (0.3) Ratio of available spread Inadequate (0.6) Ratio of available spread Adequate (1.2) Ratio of available spread			
lands to minimum required spread lands: <0.6 lands to minimum required spread lands: 0.6-0.8			lands to minimum required spread lands: >0.8
C Level of damage to watercou	rso		
What is the level of damage to water		of livestock or vehicular acce	sc?
High (0.3)	Moderate (0.		None (1.2)
Evidence of trampling and dunging in river.	Evidence of some		
Presence of eroded banks and disturbed water Direct pathway to natural watercourses.	erways. and trampling. D to natural watero		
Direct patriway to flatural watercourses.	to flatural waterd	Louises. Watercourses is impe	ded. Tesuit of livestock access.
D Risk of nutrient or sediment	_		
What is the level of risk of sediment		_	
High (0.3) Moderate Absence of functional buffer Buffer zones a		Low (1)	None (1.2)
Absence of functional buffer Buffer zones are absent or have Pathways by which zones from watercourses / been breached and there are nutrients/sediment can enter			There are no visible pathways by which nutrients/sediment
drains. Bank erosion, pathways by which nutrients / watercourses are present but only as can enter watercourses			can enter watercourses and
, , , , , , , , , , , , , , , , , , , ,		a minor pinch-point or Pathways to natural watercourses are impeded.	drains. No visible bank erosior trampling or poaching.
E Flow			
Describe the drains on site.			
Recently cleared/created (0.3)	Free flowing (0.6)	Reduced-flow (1)	Naturalised (1.2)
Drains have been recently cleared	Drains are un-vegetate		All drains are fully blocked
or created flowing directly into	and/or free-flowing an		and/or vegetated. Drains
natural watercourses.	follow direct pathway to natural watercourses.	to and/or pathway to watercourse is impeded.	with gravel/cobble substrate & stable vegetated banks
Reason for outcome:		·	-
Management advice:			





A Farmyard Assessment

Do any of the following items present risk to watercourse?

Silage pit

Round bale storage

Gutters & storm drains

Facilities to divert clean water from roofs and clean yards away from dirty yards

Cattle crush/handling areas or gathering areas for sheep

Farmyard manure storage

Slurry storage

Yards clean & tidy

Sheep dipping & spread

areas

Diesel/oil tanks

Loose houses- effluent being collected

Inappropriate use of pesticides (refers to full

Other

holding)

B Farm nutrient balance indicator (for farms with slurry storage only)

The volume of slurry generated in relation to the availability of suitable spread lands influences the whole farm score. To determine the ratio of available to required spread lands it is necessary to know:

- the number of housed livestock and amount of slurry generated (stored)
- length of housing period
- area of suitable spread lands
- appropriate stocking rates considering the characteristics of the catchments (assumed to be 11kgP / Ha (≈ 13.8m³ slurry))

The final ratio is assigned to one of three categories:



How to calculate ratio:

- [A] Extent of suitable spread lands in hectares
- [B] Number of livestock units housed
- [C] Volume of slurry generated (stored)

(B x 0.29 (amount in m³ generated by 1 unit) x 24 (weeks housed))

- [D] Amount equivalent kg of P (C x 0.8 (amount of P in $1m^3$)
- [E] Minimum extent of spread lands (D / 11 (appropriate spread rate of P per hectare))

Ratio - A / E (Available spread lands : Minimum required spread lands)

Where required the farm advisor and Wild Atlantic Nature team will work with the farmer to devise a solution to ensure appropriate nutrient management informed by an assessment of pathway risk.

C Level of damage to watercourses (indicative guide to assist assessment)

Damage to watercourse by livestock / vehicles

No damage visible

None

Ford Stone / gravel substrate Low Fine silt / peat Moderate

Damage due to

uncontrolled access

<10m Pathway impeded or length of 'other' watercourse watercourse impacted Low Priority watercourse

Moderate

10-20m Pathway impeded length of watercourse impacted

Damage visible

(trampling / dunging / eroded banks)

'Other' watercourse Moderate Priority watercourse

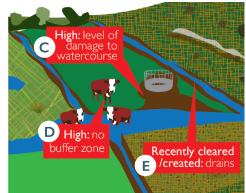
High

>20m length of watercourse impacted

impeded /loderate Any watercourse High

Pathway

Examples of Assessment C, D & E ranging from poor to excellent:



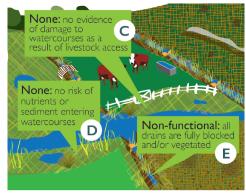


Image credit: Pearl Mussel Project

D Risk of nutrient or sediment entering watercourses

The level of risk in this section requires a Source-Pathway-Receptor connection.

Typical source types include: Land on which chemical or organic fertiliser is applied; bare soil; sediment arising from poaching damage, machinery tracks or recent reseeds etc. Risk of run-off increases when field is sloped towards river and where vegetation comprises a tight evenly grazed sward.

Absent or compromised buffer zones resulting in pathways to a watercourse will result in a 'poor' or 'moderate' risk score. Where pathways comprise only minor 'pinch-points' or are absent, the risk level may be 'low' or 'none'.

E Flow

Drains are characterised as follows:

Recently cleared/created (<1year previously): Free-flowing bare soil bringing nutrients/sediment directly into watercourse.

Free-flowing: Cleared/created (>1year previously) and flowing into watercourse but likely to have some revegetation.

Reduced-flow: Some flow but pathway to watercourse is impeded with vegetation or other impediment.

Naturalised: Fully vegetated and/or blocked.

Note: Do not consider modified watercourses that have become naturalised, i.e. substrates of clean cobbles / pebbles present.