

Report per Referral Area	19/01/2023 15:48	
Date	Upper Deel	Upper Deel (Newcastle West)
PAA Name	Deel (Newcastlewest)_020	
Waterbody name	Deel_Newcastlewest_020_Referral_01	
Referral code		

Number of Farms Assessed	8	Issues in the Referral Area		
Dairy	5	P Loss (Diffuse)	Y	
Cattle Breeding	2	N Loss (Diffuse)	0	N
Cattle Other	1	Sedimentation	Y	0
Sheep	0	Point Source Losses	0	Y
Tillage	0	Toxicity & Pesticides	Y	0
Mixed Farming	0	Ammonium	Y	
Other Enterprise	0			
Engaged	8	No. 1st visits	8	
Not Engaged	0	No. 2nd visits	5	
		No. 3rd visits	4	
		No. 4th visits	1	
Issue description				
As per the desk study phosphate, ammonia and siltation of the river channel are the main issues. MCPA exceedances are an issue further downstream at Newcastle West Public Water Supply.				

Issues found in the referral area during ASSAP visit:

		Risk 1	Risk 2	Risk 3
Farmyard Issues				
F1	Slurry Storage			1
F2	Silage Pits and Effluent Storage	1		
F3	Loose Housing and FYM Storage	1		
F4	Round Bale storage			1
F5	Dirty yards			
F6	Cattle &/or Sheep handling facilities			
F7	Clean & Grey Water management	1	1	
F8	Drain Connection from Yard to Water			
F9	Pesticide Storage and handling/Diesel/oil tanks			
F10	Other			
Land Management Issues				
LM1	P Loss Through Overland Flow	5	1	
LM2	N leaching from Light Soils			
LM3	Sediment Loss			
LM4	Drinking Points & Stream Fencing	5	1	
LM5	River Bank Erosion	1		
LM6	Drain Cleaning & Maintenance	1	4	
LM7	Culverts/River Crossings	1		
LM8	Drinking Troughs		1	
LM9	Farm Roads and Gateways and underpass			
LM10	Unsuitable drainage delivering Nutrient and/or Sediment			
LM11	Field Boundary Management			
LM12	Bare Land - Inadequate Cover Crops			
LM13	Reseeding Practices			
LM14	Losses from Tillage operations			
LM15	Supplementary Feeding and Sacrifice Paddocks	1		
LM16	Outwintering	1		
LM17	Hill Land grazing			
LM18	Rock Outcrops/Karst Features			
LM19	Forestry			
LM20	Herbicide / Pesticide and Sheep dip Use		1	
LM21	Protection of Abstraction Points and Wells			
LM22	Invasive Vegetation			
LM23	Buffers	6	2	
Nutrient Management Issues				
NMP1	Preparation and implementation of NMP	2	3	
NMP2	Achieving appropriate Soil Fertility (Lime P&K)			
NMP3	Identify and Manage Critical Source Areas			
NMP4	Organic Manure Timing, Location & Method	4		
NMP5	Recorded Import/Export Organic Manures			
NMP6	Timing - Early & Late N and Phosphorus			
NMP7	Fertiliser Rates			
NMP8	Correct Management of High OM soils			
NMP9	Sloped Fields			
NMP10	Chemical Fertiliser Spreading			
NMP11	Weather and Fertiliser Management			
NMP12	Fertiliser Type	1		
NMP13	Other			

Mitigation actions recommended in the referral area (note that few actions could have been recommended for one issue):

Mitigation Actions		Risk 1	Risk 1 - Agreed	Risk 1 - Not Agreed	Not Started	Not Proceeding	Commenced	Complete	Ongoing
Farmyard Issues									
F1	Slurry Storage	Improved management of collection and storage of farm wastes							
F2	Silage Pits and Effluent Storage	Informing and educating farmers							
F3	Loose Housing and FYM Storage	1	1					1	
F4	Round Bale storage	Informing and educating farmers							
F7	Clean & Grey Water management	1	1			1			
F8	Clean & Grey Water management	Informing and educating farmers							
Land Management Issues									
LM1	P Loss Through Overland Flow	Management of Critical Source Areas (CSA's)							
LM11	P Loss Through Overland Flow	2	2		1				
LM4	Drinking Points & Stream Fencing	5	4	1	4		1		
LM5	River Bank Erosion	1	1		1				
LM6	Drain Cleaning & Maintenance	1	1						
LM7	Culverts/River Crossings	1		1					1
LM8	Drinking Troughs	Appropriate use of feeders/troughs/out-wintering							
LM15	Supplementary Feeding and Sacrifice Paddocks	1	1		1				
LM16	Outwintering	1	1						1
LM20	Herbicide / Pesticide and Sheep dip Use	Adhere to buffer zones and safeguard zones							
LM23	Buffers	6	6				2		4
Nutrient Management Issues									
NMP1	Preparation and implementation of NMP	Informing and educating farmers							
NMP1	Preparation and implementation of NMP	1	1		1			1	
NMP4	Organic Manure Timing, Location & Method	4	4				2		2
NMP12	Fertiliser Type	1	1		1				