

Report per Referral Area	19/01/2023 15:48	
Date	Upper Deel (Newcastle West)	
PAA Name	DEEL (NEWCASTLEWEST)_D20	Upper Deel
Waterbody name	Deel_Newcastlewest_020_Referral_02	
Referral code		

Number of Farms Assessed	7	Issues in the Referral Area		
Dairy	0	P Loss (Diffuse)	Y	0
Cattle Breeding	0	N Loss (Diffuse)	0	0
Cattle Other	7	Sedimentation	Y	0
Sheep	7	Point Source Losses	0	Y
Tillage	0	Toxicity & Pesticides	0	Y
Mixed Farming	0	Ammonium	Y	0
Other Enterprise	0			
Engaged	7	No. 1st visits	7	
Not Engaged	0	No. 2nd visits	4	
		No. 3rd visits	2	
		No. 4th visits	0	
Issue description				
The significant issues within this catchment are phosphate, ammonia and siltation of the river channel. 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			
F2	Silage Pits and Effluent Storage			
F3	Loose Housing and FYM Storage	1		
F4	Round Bale storage			
F5	Dirty yards			
F6	Cattle &/or Sheep handling facilities			
F7	Clean & Grey Water management			
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	3		
LM2	N leaching from Light Soils			
LM3	Sediment Loss	2		
LM4	Drinking Points & Stream Fencing	5	1	
LM5	River Bank Erosion			
LM6	Drain Cleaning & Maintenance	2		
LM7	Culverts/River Crossings			
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			
LM16	Outwintering			
LM17	Hill Land grazing			
LM18	Rock Outcrops/Karst Features			
LM19	Forestry		1	
LM20	Herbicide / Pesticide and Sheep dip Use	1		
LM21	Protection of Abstraction Points and Wells			
LM22	Invasive Vegetation			
LM23	Buffers	5	2	
Nutrient Management Issues				
NMP1	Preparation and implementation of NMP	3		
NMP2	Achieving appropriate Soil Fertility (Lime P&K)	1	1	
NMP3	Identify and Mangle Critical Source Areas			
NMP4	Organic Manure Timing, Location & Method	1	1	
NMP5	Recorded Import/Export Organic Manures			
NMP6	Timing - Early & Late N and Phosphorus	1		
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	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										
F3	Loose Housing and FYM Storage	Improved management of collection and storage of farm wastes	1	1		1				
Land Management Issues										
LM1	P Loss Through Overland Flow	Management of Critical Source Areas (CSA's)	1	1			1			
LM1	P Loss Through Overland Flow	Riparian Buffers - Fenced/Unfenced	2	2		2				
LM3	Sediment Loss	Riparian Buffers - Fenced/Unfenced	2	2		1		1		
LM4	Drinking Points & Stream Fencing	Prevent livestock access to waters	5	5		1		1	2	1
LM6	Drain Cleaning & Maintenance	Allow grassed waterways and vegetated ditches	2	2		1		1		
LM8	Drinking Troughs	Management of Critical Source Areas (CSA's)	1	1		1				
LM19	Forestry	Management of Critical Source Areas (CSA's)								
LM20	Herbicide / Pesticide and Sheep dip Use	Adhere to buffer zones and safeguard zones	1	1						1
LM23	Buffers	Adhere to buffer zones and safeguard zones	5	5				1		4
Nutrient Management Issues										
NMP1	Preparation and implementation of NMP	Informing and educating farmers	1	1		1				
NMP1	Preparation and implementation of NMP	Precision application of nutrients at correct rate	2	2		2				
NMP2	Achieving appropriate Soil Fertility (Lime P&K)	Implementation of Nutrient Management Plan	1	1		1				
NMP4	Organic Manure Timing, Location & Method	Avoid Application at high risk places	1	1						1
NMP6	Timing - Early & Late N and Phosphorus	Informing and educating farmers	1	1				1		
NMP12	Fertiliser Type	Informing and educating farmers	1	1		1				

