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|  |  |
| --- | --- |
| Farm Name |  |
| FEP Date and Version |  |
| Prepared by |  |

Certified Farm Environment Plan for the Greater Wellington Region

# Farm Overview

## Farm Description

|  |  |
| --- | --- |
| **Property Name** |  |
| **Address** |  |
| **Name and Contact Details (email/phone)** |  |
| **Legal Description of Land** |  |
| **Legal Description and Ownership of Land Parcels (if different from above)** |  |
| **Farm Identifiers** |  |
| **Irrigation Scheme and Water Permits (other consents)** |  |

## Farm Maps- Attach to Plan

Format: attach as map

### Farm Location

### Farm Soils and Topography

### Geology + Soils

### Soil Nutrient Risk Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Soil Sibling** | **Common Names** | **Potential Erosion** | **Potential Sediment Loss** | **Potential Nutrient Loss Nitrogen and Phosphorus** | **Area of Farm (ha)** |
|  |  |  |  |  |  |
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# Management Practices

## General farm management

### Stocking numbers/rates

Examples below (delete as appropriate)

Dairy

|  |  |
| --- | --- |
| **Summary** |  |
| Peak cows milked |  |
| Cow breed |  |
| Once per day milking |  |
| Average milking cow live weight |  |
| Replacement rate |  |
| Milk solids per cow per year |  |
| Non lactating stock |  |

Sheep & Beef

|  |  |
| --- | --- |
| **Summary** |  |
| Grazeable ha |  |
| Sheep Stock Units (SSU) |  |
| Cattle Stock Units (CSU) |  |
| Total Stock units |  |
| Sheep:cattle ratio |  |
| Stock units/grazeable ha |  |

### Farm Infrastructure

Format: Attach as map and photos

## Land and soil management

Format: attach as map

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Block name** | **Area (ha)** | **Soil type** | **Irrigation** | **Irrigator type** | **Crop/Stock management** |
| *Example: Mixed cropping block* | 50 | Deep silt loam/SMap reference | Yes | Pivot | Predominately spring sown grain and seed crops. Store lambs on farm during autumn-winter |
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### Cropping practices

Format: attach as table/area included in LMU map

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year:** |  | | | |
| **Crop type sown** |  |  |  |  |
| **Month fed** |  |  |  |  |
| **Month sown** |  |  |  |  |
| **Cultivation and sowing method** |  |  |  |  |
| **Location/LMU** |  |  |  |  |
| **Area sown in crop ha)** |  |  |  |  |
| **Typical yield (t DM/ha)** |  |  |  |  |
| **Fertiliser used** |  |  |  |  |
| **Class(es) of stock grazed** |  |  |  |  |

## Nutrient/Contaminant management

Format: attach as table

|  |  |  |
| --- | --- | --- |
| **Block** | **Fertiliser product (month applied)** | **Quantity of fertiliser (kg/ha)** |
| *Example:*  *All pastoral blocks* | *Ammo 31 (July, August, September)*  *Urea (October)*  *N-Protect (November)*  *Lime, surface applied (October)* | *26, 68, and 26kg/ha respectively*  *26kg/ha*  *40kg/ha*  *2.4t/ha* |
|  |  |  |
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### Supplementary livestock feed brought onto the farm

Format: attach as table

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| --- | --- | --- |
| **Feed type** | **Source** | **Distributed location** |
| *Example:*  *Maize silage* | *Storage 500 tDM* | *Barn (200 t) and feed pad (300 t)* |
|  |  |  |
|  |  |  |

### Other farm management practice

## Irrigation and effluent management

Format: Attach as PDF. Assessment for the resource application that provides evidence of 80% water use efficiency

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Area of land irrigated** | **Farm type** | **Rotation dates** | **Volume of water irrigated** | **Irrigation season start and end date** | **Seasonal irrigation demand** |
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### New Rules for Irrigation and Priority Catchments

Format: attach as PDF. Evidence of the losses prior to 2 September 2020 and predicted losses from the proposed new irrigation management change

Format: attach as PDF. Evidence of the losses prior to 2 September 2020 and predicted losses as a result of the implementation of good management practices and mitigation measures specified in the farm environment plan

## Waterways and significant area management

Format: attach as maps

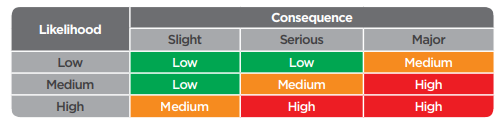
# Risk assessment and mitigations

## Critical source areas

Format: attach as maps and photos

## Nitrogen

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Risk** | **Risk factors on your farm** | **Risk rating (High, Medium, Low)** | | | | |
|  | **Land Management Unit (LMU) or Paddock** | | | |
| **Whole farm** | **Name** | **Name** | **Name** | **Name** |
| **Nitrogen loss risk**  Nitrogen potentially entering waterways impacting freshwater health or drinking water quality | Animal loss risks: stock, feed type, grazing practices, off-paddock feeding |  |  |  |  |  |
| Fertiliser loss risks: excessive nutrient levels (beyond plant needs), direct application to waterways |  |  |  |  |  |
| Effluent loss risks: overland flow, application beyond plant requirements |  |  |  |  |  |
| Nutrient transport risk: artificial drainage, soils, climate, topography, structural mitigations |  |  |  |  |  |



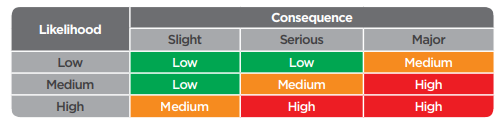
### Mitigations

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| --- | --- | --- |
| **Environmental Risk** | **Mitigation** | **Location on Farm** |
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## Phosphorus / Sediment / E. coli

### Risk assessment

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| --- | --- | --- | --- | --- | --- | --- |
| **Risk** | **Risk factors on your farm** | **Risk rating (High, Medium, Low)** | | | | |
|  | **Land Management Unit (LMU) or Paddock** | | | |
| **Whole farm** | **Name** | **Name** | **Name** | **Name** |
| **Sediment and Phosphorus loss risk**  Sediment or phosphorus potentially entering waterways may cause excess algae growth, habitat loss or other harm to freshwater health | Erosion/Sediment loss risks: stock, grazing practices |  |  |  |  |  |
| Cropping loss risks: cultivation |  |  |  |  |  |
| Fertiliser loss risks: excessive nutrient levels, direct application to waterways |  |  |  |  |  |
| Effluent loss risks: overland flow, application beyond plant requirements |  |  |  |  |  |
| Nutrient transport risks: artificial drainage, soils, climate, topography, structural mitigations |  |  |  |  |  |
| **Faecal microbe loss risk**  Contaminants, like pathogens such as *E. Coli*, potentially impacting on human health | Animal manure loss risks: stock, grazing practices |  |  |  |  |  |
| Nutrient transport risks: artificial drainage, soils, climate, topography, structural mitigations |  |  |  |  |  |



### Mitigations

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| --- | --- | --- |
| **Environmental Risk** | **Mitigation** | **Location on Farm** |
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# Implementation

## Action plan – overall

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** |  | | | | | | | |
| **Identified risks** | **Action to address risk** | **Location/ LMU/ Paddock** | **Implementation timeline** | **Person responsible** | **Budget** | **Priority** | **Evidence of completion (photo)** | **Date completed** |
|  |  |  |  |  |  |  |  |  |
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## Action plan – specific project

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Project:** |  | | | | | **Date:** |  | |
| **Area addressed:** |  | | **Desired outcomes:** |  | | **How the outcome is monitored:** |  | |
| **Tasks** | **Timeframe** | **LMU action applies to** | **Person responsible** | **People involved** | **Budget** | **Priority** | **Date completed** | **Evidence of completion** |
|  |  |  |  |  |  |  |  |  |
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## Annual review

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| --- | --- | --- |
| **Year:** |  | |
| **Review Questions** | | **Responses** |
| Are there any issues or risks associated with where infrastructure is location? | |  |
| Are there any new features of risk areas such as critical source areas to locate on the map? | |  |
| Are there any new sites of significance to locate on the map? | |  |
| Are Land Management Units still appropriate? | |  |
| Review and update action plan – overall | |  |
| Review and update action plan(s) – specific project | |  |