

# Site Assessment

## For Large Livestock Operation Proposals

(300 Animal Units or more) whenever a municipal conditional use approval is required

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### Purpose

The establishment or expansion of a livestock operation that has 300 Animal Units or more and requires a municipal conditional use approval is subject to Part 7 of [The Planning Act](#). This includes a review by the provincial Livestock Technical Review Committee (TRC). The [Technical Review Committee Regulation](#) requires a site assessment be undertaken by the proponent to help the committee complete its review and allow the public to comment on the proposal.

### Assistance

For assistance in completing this Site Assessment form, the following resources are available:

- [Site Assessment Footnotes](#) and [Site Assessment Supporting Documents](#)
- The [Land Use and Development Web Application](#) for Municipal Tax Roll Numbers, development plans and zoning by-law information.
- [Manitoba Agriculture](#) for assistance with animal unit calculations, manure application field acreage calculations, agriculture capability and Manitoba Agricultural Services Corporation yields.
- [Manitoba Environment and Climate Change](#) for information on environmental regulations and assistance for obtaining any necessary permits and/or licenses regarding manure storage facilities, confined livestock areas, manure management plans, and water rights.
- [Groundwater Management](#) for Wells Table listing wells on project site and spread fields.
- [Livestock Technical Review Co-ordination Unit](#) for additional help.

## 1.0 Description of Livestock Operation<sup>1</sup>

Legal name of operation:

Mangin Bros. Dairy Ltd.

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Name of municipality:

Municipality of Lorne

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Legal description: quarter, section, township, range, meridian or river lot(s):

SW-33-006-11W1 for main barn and manure storage, NW-28-006-11W1 for additional barn and mortalities composting site.

Municipal tax roll number(s):

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Prepare a Location Map of the project site. (see [Location Map Example<sup>1</sup>](#)).

- 1. Location Map attached.

## 1.1 Nature of the Project<sup>2</sup>

Indicate if the proposal is for a new or expanding livestock operation:

- New operation
- Expansion of existing operation
- Change of existing operation (no increase in Animal Units)

If it is an existing operation, indicate when the operation was established:

Current operation established December 3, 2010.

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State operation's original name if different from current:

Laurent Mangin

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Describe what is being proposed:

Currently, Mangin Bros. operate a dairy farm with 144 mature cows and replacement stock (288 animal units). They intend to expand their operation to 625 mature cows (1250 animal units). The current operation utilizes a single cell earthen manure storage. In addition to expanding the barn to accommodate the increased size of the dairy herd, Mangin Bros. also intends to build a new multi-cell manure storage. The new manure storage will be built in stages. The current manure storage will remain in use until the construction of the second cell of the new manure storage. When the second cell is completed, the current manure storage will be decommissioned.

State if any existing buildings will be replaced or demolished. If existing buildings will be reused or expanded, state how they will be reused or expanded. Note: Certain proposals involving the replacement or alteration of existing animal housing may be exempted from conditional use approvals and provincial technical reviews. To determine if you may be eligible, refer to the [Frequently Asked Questions](#) document and contact your municipal office.

No existing buildings will be demolished.

## 1.2 Project Site Plan

Prepare a Project Site Plan. Show all existing and proposed buildings, additions to existing buildings and any existing or proposed confined livestock areas as well as separation distances on an aerial photo. See the [Project Site Plan Example and Guide](#) for assistance.<sup>3</sup>

2. Project Site Plan attached.

## 2.0 Current and Proposed Type and Size of Operation<sup>4</sup>

In the [Animal Units Calculator](#) insert the total number of animals for each animal category associated with the current and proposed operation.

3. Animal Units Calculator attached.

## 3.0 Animal Confinement Facilities

Based on the nature of the proposed project, indicate each type of animal confinement facility<sup>5</sup> to be found on site (post construction). Note the animal category of each facility or area and its size and check off the type of project it is.

**Table 3-1: Animal Confinement Facilities**

Type of structure		Structure size (square footage)	Type of project			
Animal confinement facility <sup>5</sup>			New construction	Replacement	Alteration	Use existing as is
Barn	Animal category					
(1)	Dairy Barn (1969) NW28-006-11W1 <input checked="" type="checkbox"/>	4500				✓
(2)	Calf Barn (2021) SW33-006-11W1	5360				✓
(3)	Dairy Barn (2023) SW33-006-11W1 <input checked="" type="checkbox"/>	28600				✓
(4)	Dairy Barn Expansion	7000	✓			
(5)						
(6)						
Outdoor area	Animal category					
(1)	N/A					
(2)	N/A					
(3)	N/A					

None of the above

## 4.0 Confined Livestock Areas

Based on the nature of the proposed project, indicate each type of confined livestock area<sup>6</sup> to be found on site (post construction). Note the animal category of each facility or area and its size and check off the type of project it is.

**Table 4-1: Animal Confinement**

Type of structure		Structure size (square footage)	Type of project			
Confined Livestock Area <sup>6</sup>			New construction	Replacement	Alteration	Use existing as is
Feedlot	N/A					
Paddock	N/A					
Corral	N/A					
Exercise yard	N/A					
Holding area	N/A					

None of the above

## 5.0 Project Sites Unsuitable for Development<sup>7</sup>

Will the proposed confined livestock area and/or manure storage facility be located within Nutrient Management Zone N4<sup>8</sup> or any Nutrient Buffer Zone?<sup>9</sup>

Yes  No

## 6.0 Water Source

Indicate the type of water source for the operation (check all that apply):

Pipeline (public)/water cooperative: \_\_\_\_\_

Proposed well – location: \_\_\_\_\_

Existing well – location: Primary: UTM E: 507260 N: 5484913, Secondary: E: 507471 N: 5485005

Dugout or reservoir - source and location: \_\_\_\_\_

Other, describe: \_\_\_\_\_

### 6.1 Access to Surface Water<sup>10</sup>

I acknowledge livestock from my operation, located in a confined livestock area or seasonal feeding area, will not have direct access to surface water.

## 6.2 Water Requirements<sup>11</sup>

Estimate the total water use for your project using the Water Requirement Calculator.

6.2.1 Maximum daily water use: 34,080

Imperial gallons

Litres

6.2.2 Maximum yearly water use: 12.44 million

Imperial gallons

Litres

4. Water Requirement Calculator attached.

## 7.0 Development Plan<sup>12</sup>

Using the [Land Use and Development Web Application](#) or the municipality's development plan by-law, provide the following information:

See supporting appendices by DGH, Section 7.0

**Table 7-1: Development Plan**

<b>Name of planning district (if applicable)</b>	South Central Planning District
<b>Name of municipality</b>	RM of Lorne
<b>Development plan by-law number</b>	35-2019
<b>Land use designation of project site</b>	Rural

## 8.0 Zoning By-law<sup>13</sup>

Using the [Land Use and Development Web Application](#) and the municipality's zoning by-law, provide the following information:

**Table 8-2: Zoning By-law**

Zoning by-law number: <u>0070-22</u>		
Identify zone of project site: <u>AG - Agricultural General</u>		
Identify minimum project site requirements as per zoning by-law:		
	Proposed project site dimensions	Zoning by-law project site requirements
Minimum site area	161.5 acres	80 acres
Minimum site width	~2600 ft.	200 ft
Minimum front yard	~1450 ft	125 ft.
Minimum side yard	328 ft	25 ft.
Minimum rear yard	328 ft	25 ft.

## 9.0 Separation Distances (zoning by-law)<sup>14</sup>

Using the proposed size of the operation (see [Animal Units Calculator](#)) and the type(s) of animal housing and manure storage facilities, provide the following:

**Table 9-1: Separation Distances**

	Indicate minimum separation distance required in the zoning by-law to the following listed land use features (if applicable).  Check appropriate box(es):		If land use feature is less than the minimum separation distance required in the zoning by-law complete this section:	
	<input checked="" type="checkbox"/> Earthen manure storage facility  or <input type="checkbox"/> Feedlot	<input checked="" type="checkbox"/> Animal confinement facility  or <input type="checkbox"/> Non-earthen manure storage facility	Provide actual distance	Provide location or name of feature (e.g., Red River)
<b>Residence/dwelling</b>	1,968 ft 600 m	984 ft 300 m	2790 ft	Nearest non-farm residence to EMS.
			3611 ft	Nearest non-farm residence to barn
<b>Designated area (non-agricultural)</b>	7,874 ft 2400 m	5,249 ft 1600 m	12467 ft	Nearest Designated Area to EMS.
			11811 ft	Nearest Designated Area to ba

If any separation distance is less than the zoning by-law minimum, a variance order will be required from the municipality.

## 9.1 Land Use Map

Indicate the following on a Land Use Map (see [Land Use Map Example](#)):

- a) Location of the project site.
- b) Land uses and significant features including dwellings (not related to the proposal) within a three-kilometre radius of the project site.

5. Land Use Map attached.

## 10.0 Wells<sup>15</sup>

Are there any known unsealed abandoned wells on the project site or spread fields?

Yes  No

### 10.1 Well Locations

Provide Groundwater Management with locations of project site and spread fields. Groundwater Management will respond with a Wells Table listing wells, as identified on provincial wells database.

In provided Wells Table, add any known wells not already identified using additional rows. Provide additional information as needed.

Identify the location(s) of known abandoned and active wells on the Project Site Plan (Section 1.2) and Spread Field Maps (Section 18.0), as applicable.

6. Wells Table attached

## 11.0 Water Control works<sup>16</sup>

Are new control works being proposed?

Yes  No

Are you (the operator) aware of any seasonal, semi-permanent or permanent wetlands on the project site? If yes, identify the location(s) in the Project Site Plan.

Yes      No      See supporting appendices by DGH, Section 11.

## 12.0 Manure Type and Storage<sup>17</sup>

### 12.1 Manure Type

Indicate the type(s) of manure that will be generated:

Solid       Semi-solid       Liquid

### 12.2 Manure Storage Type and Construction

Indicate if the operation is planning to construct, modify or expand a manure storage facility<sup>18</sup> or use an existing manure storage facility:

Construct       Expand       Modify       Use Existing       Not Applicable

Current EMS is to remain in use until second cell of new EMS is constructed.

Indicate the type of manure storage that will be used by the operation: (check all that are applicable)

- Concrete tank
- Steel tank
- Earthen manure storage facility
- Permanent solid manure storage facility
- Molehill manure storage facility
- Under-barn concrete manure storage facility (30-day capacity or greater)
- Permanent manure composting facility
- Field storage

### 13.0 Mortalities Disposal<sup>19</sup>

Indicate the type(s) of mortalities disposal:

- Rendering
- Composting
- Incineration (in approved incinerator only)
- Landfill
- Other (describe): \_\_\_\_\_

Does the proposal include a permanent site for composting mortalities that will use manure?<sup>20</sup>

- Yes    No

If yes, identify the location(s) on the Project Site Plan (Section 1.2)

See attached project site plan.

# 14.0 Setback Distances from Manure and/or Mortality Sites to Water and Operation Boundaries

Use the following table to indicate the proposed setback distances from water and property lines. Provide the name of the feature.

Note that final location of the new EMS is still to be determined.

**Table 14-1: Setback Distances from Manure and/or Mortality Sites to Water and Operation Boundaries**

Feature	Structures	Minimum setback distance (m) <sup>21</sup>	Proposed setback distance (m)	Provide location or name of feature (e.g., Red River)
Surface watercourses, sinkholes, springs or wells	Manure storage facility	100 m	> 100 m	Marsh to the south and west of new EMS. Intermittent lake to the east. Final location TBD.
	Field storage	100 m	N/A	
	Manure composting site	100 m	N/A	
	Confined livestock area	100 m	N/A	
	Mortalities disposal site	100 m	N/A	
	Mortalities composting site	100 m	125 m	Marsh to the NE of compost site.
Property line	Manure storage facility	100 m	> 100 m	North and west property lines. Final location TBD.
	Manure composting site	100 m	N/A	
	Confined livestock area	100 m	N/A	
	Mortalities composting site	100 m	~107 m	From East property line.

If any setback distances have not been met, provide explanation below:

# 15.0 Building in Flood Areas<sup>22</sup>

Using the links below, determine if any proposed structure will be in a Designated Flood Area.

[Red River Valley Designated Flood Area](#)

[Lower Red River Designated Flood Area](#)

Are any of the proposed structures in a Designated Flood Area?

Yes  No

# 16.0 Odour Control Measures (Project Site)

Indicate which odour control measures are planned.

Manure storage cover:

Yes  No  Not applicable Dairy manure with straw. Natural crusting.

If yes, type of cover: \_\_\_\_\_

Shelterbelt planting:

Yes  No  Existing shelterbelt

Other measure (specify):

# 17.0 Land Available for Manure Application<sup>23</sup>

## 17.1 Land Calculation

Fill out and attach the [Manitoba Land Calculator](#)<sup>24</sup> to determine the minimum number of acres for the manure nutrients.

From the calculator, indicate:

Acres for Nitrogen uptake:<sup>25</sup> 1217

Acres for Phosphorus removal:<sup>25</sup> 1071

- 7. Copies of long-term Manitoba Agricultural Services Corporation (MASC) yields<sup>26</sup> attached.
- 8. Manitoba Land Calculator attached.

Contact Manitoba Agriculture at 204-918-0325 in Winnipeg if assistance is required.

## 17.2 Long-Term Environmental Sustainability

From the Manitoba Land Calculator, indicate acres for Phosphorus balance:<sup>27</sup> 2143

I acknowledge that the amount of acres indicated in the Manitoba Land Calculator up to 2143 acres may be required for Phosphorus balance (one times crop  $P_2O_5$  removal) and the long-term environmental sustainability of the operation.

## 17.3 Characteristics of Manure Application Fields<sup>28</sup>

Fill out and attach the [Manure Application Field Characteristics Table](#).

Provide Spread Field Maps of land available for manure application along with their agricultural capability (see [Spread Field Map Example](#)).

For all land available for manure application, attach copies of soil test reports that are no more than 36 months old and that demonstrate that soil phosphorus levels are below 60 ppm Olsen P in the top six inches (15 centimeters) of soil.

- 9. Manure Application Field Characteristics Table attached.
- 10. Spread Field Map (showing agricultural capability and field boundaries) attached.
- 11. Soil test reports for the land available for manure application attached.

## 18.0 Setbacks for Manure Application

Have the regulatory setbacks<sup>29</sup> and all water features been observed and excluded from land base calculations for this operation?

Yes

## 19.0 Manure Transportation and Application

Will a commercial manure applicator be used?<sup>30</sup>

- Yes  No

Identify the proposed transportation method:

- Tanker  
 Dragline  
 Solid spreader  
 Other: \_\_\_\_\_

Identify the proposed application method(s), (check all that apply):

- Full/true injection  
 Partial injection (Aerway or Coulter)  
 Low-level broadcast application  
 High-level broadcast application  
 Immediate incorporation  
 Incorporate within 48 hours  
 No incorporation – provide reason: \_\_\_\_\_

### 19.1 Season of Application

Identify the proposed timing of application (check all that apply):

- Spring  
 Summer (e.g., to a growing crop)  
 Fall

## 20.0 Manure Application on Lands Subject to Frequent Flooding or Inundation<sup>31</sup>

Are any of the lands available for manure application located in the [Red River Valley Special Management Area](#) or another area that is subject to flooding on an average basis at least once every five years?

- Yes  No

# 21.0 Projected Truck Haul Routes and Access Points<sup>32</sup>

Complete the following table:

**Table 21-1: Truck Haul Routes and Access Points**

Vehicle type	Estimated average number of times per day accessing		Access from PTH/PR onto site will mainly require a left or right hand turn (please check one)				Access onto PTH/PR from site will mainly require a left or right hand turn (please check one)			
	Provincial Trunk Highway (PTH)	Provincial Road (PR)	Provincial Trunk Highway (PTH)		Provincial Road (PR)		Provincial Trunk Highway (PTH)		Provincial Road (PR)	
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
<b>Truck</b>	1	1		✓		✓		✓		✓
<b>Tractor trailer</b>	1	1		✓		✓		✓		✓
<b>Other, specify</b>										

Identify on a map the roads and access points that will be used for the proposed operation (see [Truck Haul Routes and Access Points Map Example](#)).

- 12. Truck Haul Routes and Access Points Map attached.

## 22.0 Conservation Data Centre Report

A Conservation Data Centre (CDC) Report is required for lands associated with the development where facility development or manure application will occur on Crown lands or, for all other lands, there is a change in land use or activity that could negatively impact the habitat of species at risk in Manitoba.

Changes of use or activity include:

- the development of new sites
- land clearing
- conversion of land to cropland

A CDC Report is not required for existing operations that will not be utilizing Crown lands, not be developing or converting land, and not be changing practices in a manner that could impact habitat.

Conservation Data Centre report requests may be submitted electronically to:

<https://gov.mb.ca/nrnd/fish-wildlife/cdc/request.html>

Are any parcels of land Crown land?  Yes  No

If yes, legal land location(s): \_\_\_\_\_

Are any parcels of land going to be cleared for development?  Yes  No

If yes, legal land location(s): \_\_\_\_\_

Are any parcels of land going to be converted to crop land?  Yes  No

If yes, legal land location(s): \_\_\_\_\_

13. Conservation Data Centre Report attached. N/A

Were rare species identified in the Conservation Data Centre Report?

Yes  No N/A

## 23.0 Additional Information

Include any additional information you deem helpful for the Technical Review Committee to review your proposal.

## 24.0 Supporting Documents Checklist

Check off the supporting documents attached to this submission.

### Section 1 - Description of Livestock Operation

- 1. Location Map
- 2. Project Site Plan

### Section 2 - Current and Proposed Type and Size of Livestock Operation

- 3. Animal Units Calculator

### Section 6 - Water Source

- 4. Water Requirement Calculator

### Section 9 - Separation Distances (zoning by-law)

- 5. Land Use Map

### Section 10 - Wells

- 6. Wells Table

### Section 17 - Land Available for Manure Application

- 7. Copies of long-term Manitoba Agricultural Services Corporation (MASC) yields
- 8. Manitoba Land Calculator
- 9. Manure Application Field Characteristics Table
- 10. Spread Field Map (showing agricultural capability, field boundaries, and well locations)
- 11. Soil test reports for the land available for manure application (no more than 36 months old)

### Section 21 - Projected Truck Haul Routes and Access points

- 12. Truck Haul Routes and Access Point Map

### Section 22 - Conservation Data Centre Report

- 13. Conservation Data Centre Report (only for new project sites and non-agricultural land being converted to cropland)      N/A

### Additional Forms

- 14. Contact information and privacy publication notice (attach separately)
- 15. Conditional Use Application
- 16. Other, specify: \_\_\_\_\_

## Declaration

I do hereby verify that the information contained in the Site Assessment, and all required supporting documents, are accurate and complete to my knowledge.

Date: 2026/01/21  
(YYYY/MMM/DD)

Name: Steven Mangin  
(print clearly)

Signature: 