

TECHNICAL REVIEW COMMITTEE

**A TECHNICAL REVIEW REPORT
PREPARED FOR**

**THE RURAL MUNICIPALITY
OF
MACDONALD**

**ANSEEUW DAIRY FARM LTD.
SE¹/₄ 5-10-2 EPM**

TRC 12 – 042

June 18, 2018
(Revised June 26, 2018)

A. INTRODUCTION – THE TEAM

The Technical Review Committee (TRC) is supported by the following department personnel:

- Agriculture (Ag); Livestock Environment, Nutrient Management and Business Development Specialists, Agricultural Engineer, and Veterinarians
- Municipal Relations (MR); Community Planners
- Infrastructure (MI); Development Review Technologists, Engineering and Operations Division; Development Review Officers, Water Management and Structures Division
- Sustainable Development (SD); Technical Review Officer, Soils Specialist, Environmental Engineer, Environment Officer, Habitat Mitigation Biologist, Regional Wildlife Manager, Nutrient Management Regulation Supervisor, Groundwater Specialist, Water Rights Licensing Technologist and Senior Land-Water Specialist
and
- Any other specialist or department that may have an interest, which may be consulted during the process.

The Technical Review Coordinator, (Senior Planner, MR) chairs the committee.

THE REPORT (TRC Process Box 17)

Prime Purpose of TRC Reports

To provide objective, highly credible, technically-based assessments that:

- a) Enable municipal councils to make informed Conditional Use Permit decisions;
- b) Create a common stakeholder understanding of a livestock proposal, potential impacts and related regulatory requirements and safeguards;
- c) Provide a vehicle/forum that enables the sharing of public concerns and proponent responses;
- d) Offer recommendations to both municipal councils and proponents; and
- e) Represents the fulfillment of the TRC's role as per 116(1)(b)(i) of *The Planning Act* – to determine, based on available information, that the

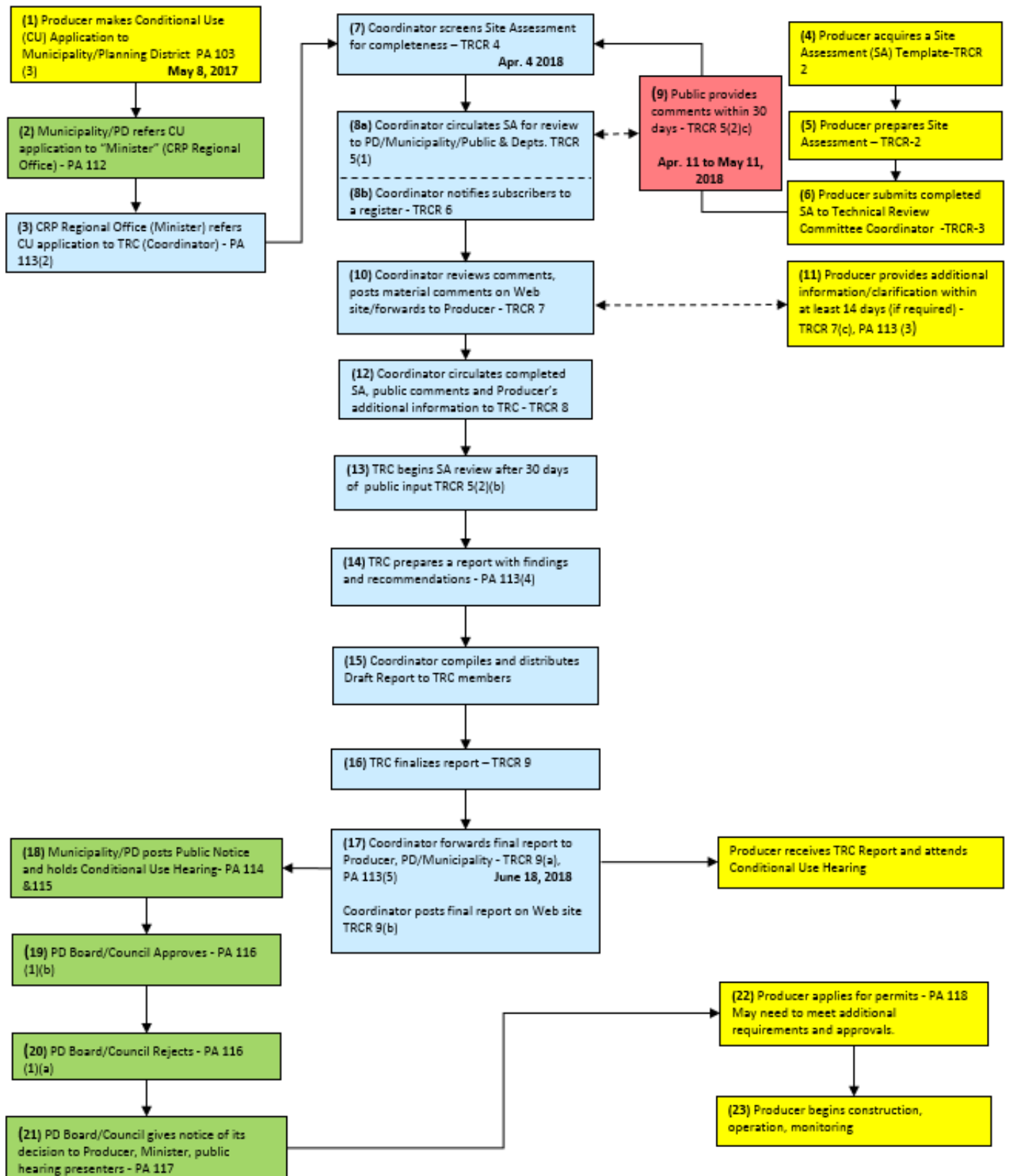
proposed operation will not create a risk to health, safety or the environment, or that any risk can be minimized through the use of appropriate practices, measures and safeguards

Should the Municipal Council provide conditional approval of the proposal, the project proponent may be required to obtain various permits and licenses from the Province to address in greater detail environmental aspects of the proposal.

THE PROCESS

TRC Process Chart with actual pertinent dates and brief overview:

The Technical Review Process: TRC-12-042 – Anseeuw Dairy Farms Ltd.



B. DESCRIPTION OF PROPOSED LIVESTOCK OPERATION

To view a detailed description, go to

<http://www.gov.mb.ca/mr/livestock/index.html>

Applicant: Anseeuw Dairy Farms Ltd.

Site Location: SE¼ 5-10-2 EPM - Approximately 2 miles (3.2 km) northeast of the Community of Oak Bluff and approximately a ½ mile (0.8 km) south of the south boundary Winnipeg. Refer to map below.

Proposal: To expand the current dairy operation from 190 animals (380 Animal Units) to 700 animals (1400 Animal Units) within an animal confinement facility and a confined livestock area.

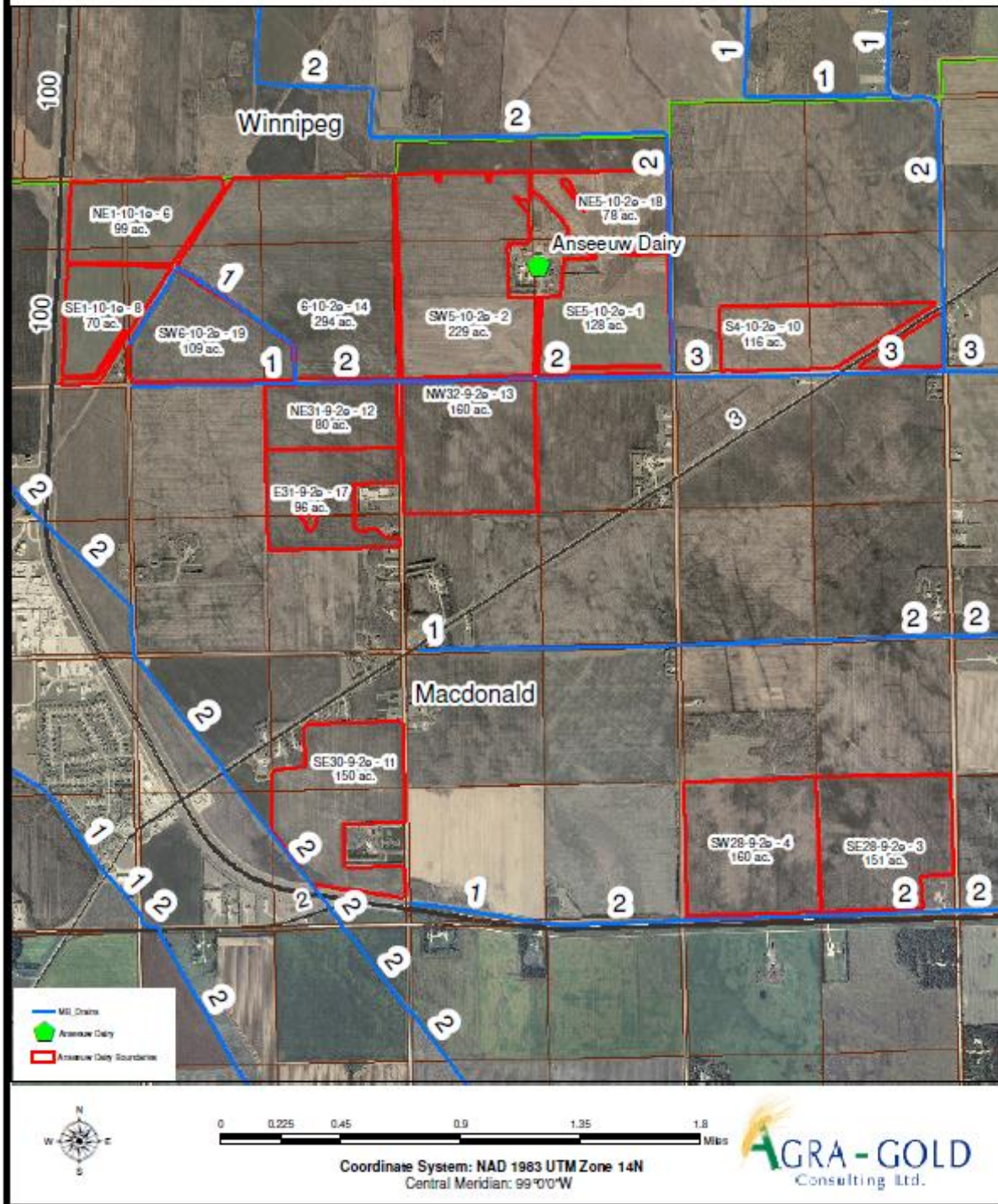
This will involve the following:

- Constructing additional housing for mature cows indoors and outside corrals for replacement heifers
- Constructing of a circular tank (manure storage structure) (x day holding capacity)
- Consuming 22,817 imperial gallons of water per day (from a public pipeline)
- Composting mortalities
- Using the truck haul routes as shown below

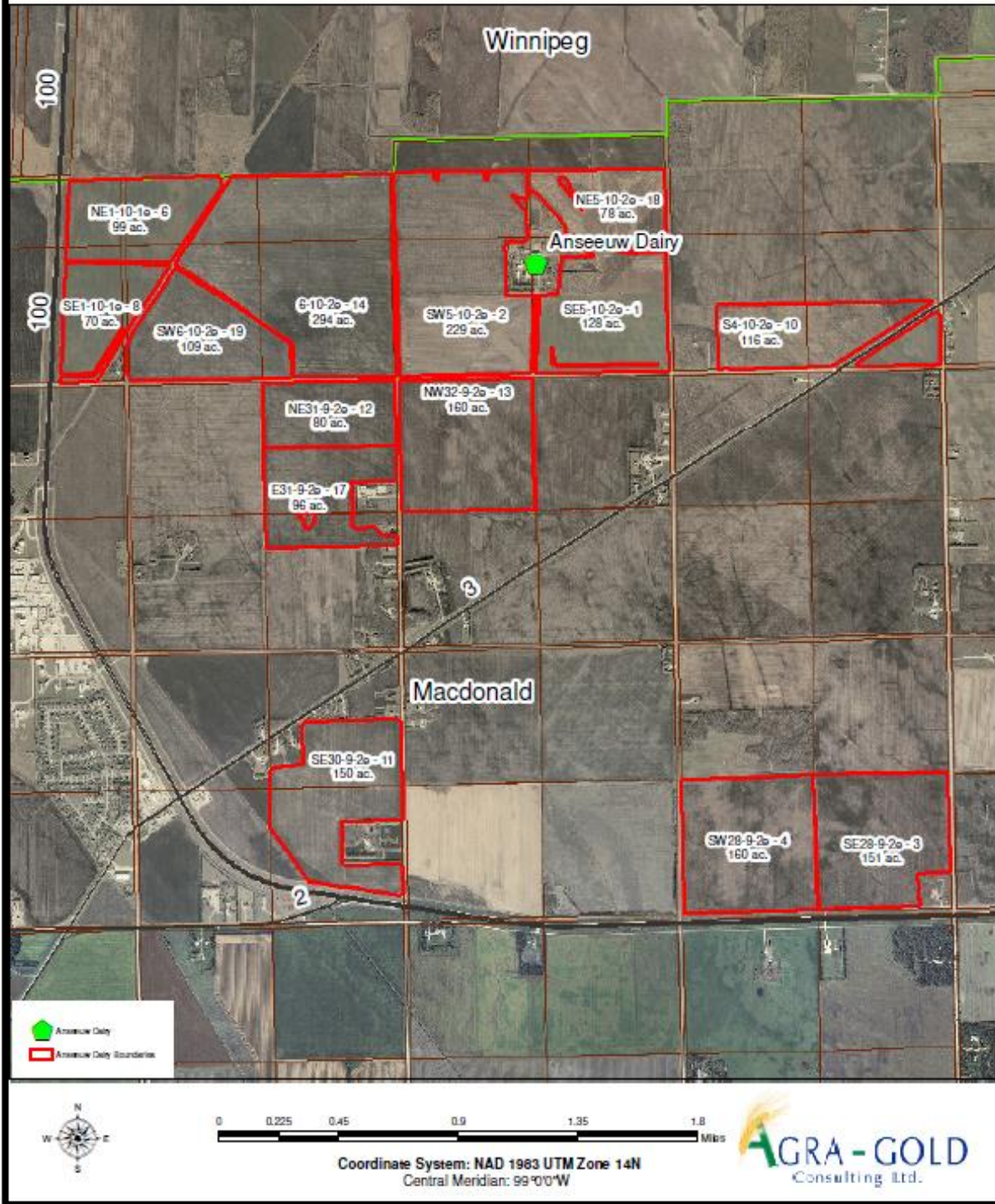
Anseeuw Dairy Haul Truck Route



Anseeuw Dairy - Drains



Anseeuw Dairy - Spread Acres



C. SITE ASSESSMENT OVERVIEW

Assessment Overview Table

Provincial Technical Overview of TRC 12-042 - Anseeuw Dairy Farm Ltd.:			
Items Provided by Project Proponent	Confirmed	Related Existing Provincial Safeguards	Dept
1. Submitted complete Site Assessment	X	The proposal is consistent with the Provincial requirements for a livestock operation.	MR
2. Clearly defined the project as an Animal Confinement Facility and a Confined Livestock Area	X	Any barn is in excess of 6,458 sq. ft. each will require a building permit from the Office of the Fire Commissioner. Construction of confined livestock areas requires a permit from Sustainable Development prior to commencement of construction.	MR
3. Proposed Project Site Physical Suitability	X	Detailed and reconnaissance soil survey indicates that the proposed dairy operation, including all of the spread fields, is located on prime agricultural land (agriculture capability Class 1 to 3). The proposed expansion includes using an existing earthen manure storage structure for the liquid manure and field storage for the solid manure. The proposal also indicates that a permanent composting site will be used for mortalities. Manitoba Sustainable Development should be contacted regarding the regulatory requirements for permanent manure and mortalities composting facilities.	Ag
4. Proposed Project Site Flood Risk Potential	X	Water Management, Planning and Standards is not aware of any major, overland flood hazard at this location.	MI
5. Identified 22,817 imperial gallons/day required for proposed operation	X	According to the Site Assessment document, there is no plan to use a self-supplied source of water, therefore Water Use Licensing Section has no concerns.	SD
6. Proposed measures to meet storage and application	X	Annual submissions under the Livestock Manure and Mortalities Management Regulation would be processed by Environmental Approvals Branch of Sustainable Development.	SD

Provincial Technical Overview of TRC 12-042 - Anseeuw Dairy Farm Ltd.:

Items Provided by Project Proponent	Confirmed	Related Existing Provincial Safeguards	Dept
regulations for manure		The proposed operation would continue to be required to register annual manure management plans. Manure management plans are reviewed by Branch staff for regulatory compliance at the time of submission. As soil nutrients change over time, SD staff cannot dedicate resources to review the spread field information and soil tests in this site assessment. However, soil analysis reports are included in the manure management plans. Additional details on the required information for manure management plans, including mandatory sampling depth, soil analysis and completing the form are provided at: http://www.gov.mb.ca/sd/envprograms/livestock	
7. Proposed Project Site with suitable mortalities disposal methods (composting)	X	Information on disposal is provided in section 9 of the site assessment, which requires the proponent to select from 4 acceptable methods of disposal. More specific information is included in the Livestock Manure and Mortalities Management Regulation and at http://www.gov.mb.ca/sd/envprograms/livestock	SD
8. Proposed Project Site with acceptable odour control measures	X	The proponent has indicated that there is an existing shelterbelt and that manure will be injected or applied and incorporated within 48 hours of application. Injection or immediate incorporation will reduce odour from land application. As well, a crust typically forms on the surface of stored dairy manure that greatly reduces odour from the manure storage. Should odour become a problem for neighbouring residents, there is a complaints process under <i>The Farm Practices Protection Act</i> . A person who is disturbed by any odour, noise, dust, smoke or other disturbance resulting from an agricultural operation may make a complaint, in writing, to the Manitoba Farm Industry Board. The Act is intended to provide for a quicker, less expensive and more effective way than lawsuits to resolve nuisance complaints about farm practices. It may create an understanding of the nature and circumstances of an agricultural operation, as well as bring about changes to the mutual benefit of all concerned, without the confrontation and the expense of the courts.	Ag
9. Proposed Project Site that meets	X	The project site is designated "GZ" Green/Agricultural Policy Area in the Macdonald Ritchot Development Plan	MR

Provincial Technical Overview of TRC 12-042 - Anseeuw Dairy Farm Ltd.:

Items Provided by Project Proponent	Confirmed	Related Existing Provincial Safeguards	Dept
development plan and zoning by-law requirements		<p>By-law 2/10. It is also located within the Limited Livestock Management Area (LLMA). The Development Plan policy cites that “Lawfully existing livestock operations within the LLMA ...at the time of adoption of this By-law shall be considered to have conditional use approval. Expansion of said operations shall require a separate conditional use approval...”</p> <p>The project site is largely in the “AG” Agricultural General Zone but a small portion of it lies within the “AR” Agricultural Restricted Zone as set in the RM of Macdonald Zoning Bylaw 15-95 It is likely that this was an oversight and the “AR” boundary was drawn without the recognition of the existing farm. It is expected that this boundary will be adjusted in the new zoning by-law (which has currently received first reading) and that that the entire farm property will lie within the “AG” Zone. A livestock operation over 100 animal units is a conditional use in the “AG” Zone. It is not a permitted use in the “AR” Zone.</p> <p>The separation distance from a livestock operation with more than 300 AU is set out in the Zoning By-law, Table 5-4. A 1 mile (5280 ft.) separation from a dwelling is required for liquid manure and a ¾ mile (3960 ft.) separation from a dwelling for solid manure. For the liquid manure storage, a variance will be required for the nearest residence to the south west or south east of the operation depending on the exact location of the storage. The storage of solid manure is identified as field storage.</p> <p>The area to the north within the City of Winnipeg is an area that is designated as “New Neighbourhood”. There is one dwelling within Winnipeg which is located just under 1 mile away from the operation and which, depending on the exact location of manure storage may need a variance. However, the area within Winnipeg is currently used for agriculture and does not appear to contain any other dwellings that are located within 1 mile of the Livestock Operation. .</p>	
10. Proposed Project Site that is a sufficient distance from native prairie,	X	Distances to these features is provided in section 10.5 of the site assessment. Where the distances exceed 1 mile, the department generally has no objection.	SD

Provincial Technical Overview of TRC 12-042 - Anseeuw Dairy Farm Ltd.:

Items Provided by Project Proponent	Confirmed	Related Existing Provincial Safeguards	Dept
Wildlife Managements Areas and Crown Land.			
11. Proposed Spreadfields that are sufficient, and suitable for manure spreading	X	<p>Anseeuw Dairy has exceeded the land requirement for 700 mature dairy cows and associated livestock in the RM of MacDonald. A detailed explanation of the land assessment can be found in the appendix.</p> <p>All of the manure will be applied as a fertilizer for crop production. Because the operation is located within the Red River Valley Special Management Area, any manure that is applied to bare soil in the fall (September 10-November 10) must be injected or incorporated within 48 hours to reduce the risk of nutrient loss in spring runoff. Injection or immediate incorporation also reduces gaseous losses of nitrogen (N) which, in turn, reduces the amount of manure that must be applied to meet the N requirement of the crop and the amount of P that will be applied.</p> <p>As the operation is greater than 300 AU, a manure management plan must be submitted to Manitoba Sustainable Development. If the services of a manure management planner are used, the planner must be a Professional Agrologist or Certified Crop advisor and must have successfully completed training in manure management planning delivered by the Assiniboine Community College.</p> <p>The proponent has indicated that a commercial manure applicator may be used to apply the manure. Commercial manure applicators must be trained and licenced in Manitoba. The training is delivered by the Assiniboine Community College and licencing is through Manitoba Agriculture. (See Appendix A)</p>	Ag
12. Proposed Spreadfields with sufficient minimum setbacks on Spreadfields from natural features (water sources etc.)	X	The proponent is required to demonstrate minimum setback distances listed in section 10.6 of the site assessment. (See Appendix B)	SD

Provincial Technical Overview of TRC 12-042 - Anseeuw Dairy Farm Ltd.:

Items Provided by Project Proponent	Confirmed	Related Existing Provincial Safeguards	Dept
13. Proposed Spreadfields with sufficient minimum setbacks on spread fields from natural features (water sources etc)	X	Section 8.7 requires the proponent to indicate if all setbacks have been observed from and excluded from land base calculations.	SD
14. Proposed Spreadfields that have been secured by spread agreements	X	The proposal indicates that the land available for manure application is owned, leased and under agreement. The land agreements were provided with the site assessment.	Ag
15. Proposed Spreadfields that meet development plan and zoning by-law requirements	X	All spread fields are appropriately designated Green/Agricultural Policy Area (Macdonald-Ritchot Development Plan 2/10) and zoned AG Agricultural General Zone and AR Agricultural Restricted Zone (R.M. of Macdonald Zoning By-law 15/95).	MR
16. Proposed trucking routes and access points that may impact Provincial Roads or Provincial Trunk Highways	X	The proposed truck route will utilize an existing municipal/Government Road Allowance with an existing Government Road Allowance access connection onto PTH 3. Manure spreading: please note that any structures placed within the controlled area of PTH 100 and PTH 3 (125 feet from the edge of the right-of-way) requires a permit from the Highway Traffic Board. Please phone (204) 945-8912 for information regarding any such permits. The placement of temporary draglines or any other temporary machinery/equipment for manure application within the right-of-way of PTH 100 and PTH 3 requires permission from our regional office in Steinbach. Please contact the Regional Planning Technologist (Robert Fender) at (204) 371-6858. In addition, please notify the Regional Planning Technologist for the placement of temporary draglines or other temporary equipment for manure application within the controlled area of PTH 100 and PTH 3 (125 feet from the edge of the right-of-way).	MI
17. Proposed trucking routes – local roads	X	The Municipality may impose, through a development agreement, conditions regarding the maintenance and /or construction of local roads, as provided for in <i>The Planning Act</i> , Section 4.4.1.4c) of the development plan	MR

Provincial Technical Overview of TRC 12-042 - Anseeuw Dairy Farm Ltd.:			
Items Provided by Project Proponent	Confirmed	Related Existing Provincial Safeguards	Dept
		and 7.8(g) of the zoning by-law.	
18. Declared Provincial Waterways	X	<p>Several of the spread fields in S-4-10-2E1 are adjacent to the Lot 16 Drain, a Provincial Waterway. Provincial Waterways are subject to Section 14 of the Water Resources Administration Act, which states:</p> <p>“No person shall place any material on, remove any material from, or construct, carry out, reconstruct, establish, or place, any works or structures on, over, or across, a provincial waterway, except as may be authorized in writing by the Minister and subject to such terms and conditions as the Minister may prescribe.”</p> <p>Water Management and Structures requires a Provincial Waterway Authorization be obtained for any development crossing or along a Provincial Waterway, including the use of temporary manure hoses. Attached please find a copy of the permit application, and once completed, applications can be forwarded to:</p> <p>Development Review Manitoba Infrastructure Second Floor, 280 Broadway Winnipeg, Manitoba R3C 0R8</p>	MI

Provincial Departments

- Ag – Agriculture
- MR –Municipal Relations
- MI – Infrastructure
- SD – Sustainable Development

D. PUBLIC COMMENTS & DISPOSITIONS

Public Comment Summary	
1. Daniel Paukovic WPG	<p>Concerns</p> <p>I believe the dairy farm expansion has the potential to negatively impact the land, and property values of the residential areas of Oak Bluff, and the same to be true for the land, and property of the City of Winnipeg, that is in close proximity to the farm.</p>
2. Andrew Hurst 1992 Loudoun Rd. WPG	<p>Concerns</p> <p>Our concern with the expansion is that we have family members with allergies to animals, how close to our home will the actual animals be? Will there be a noticeable "farm" smell in the air? This will affect our ability to enjoy our back yard as well as affect the resale value of our home.</p>
3. Julia Jones SW 3-10-2E RM Macdonald	<p>Concerns</p> <p>We are currently investing in a new building project to expand our current business, and the expansion of a nearby dairy farm would interfere with our business operations.</p>
4. Michelle Cooper 4146 McGillivray Rd. RM Macdonald	<p>Objects</p> <p>We strongly oppose to the proposal from Anseeuw Dairy Farm Ltd. to expand its existing operation from 190 to 700 animals (380 to 1400 Animal Units) at SE 5-10-2 EPM, located approximately 2 miles (3.2 km) northeast of the community of Oak Bluff and approximately a 1/2 mile (0.8 km) south of the south boundary of the City of Winnipeg at its southwest limits.</p>
5. Lydia Hochleitner WPG	<p>Questions</p> <p>Be advised I'm not against the proposed livestock increase as such, but I would like to know if there will be any anticipated impact on the air quality of the area where I live. (within the perimeter & McCreary Rd. & McGillivray Blvd.) I'm confused because the map that was forwarded by your municipality shows the farm not to be too far from some residential areas. I would also like to add that I understand the dairy farm has high standards & is progressive.</p>
6. Marshall Gourlay Lot 2 McConnell Rd RM Macdonald	<p>Objects</p> <p>I received the notice from your office regarding the proposed expansion of a dairy farm by Anseeuw Dairy Farm Ltd. from 190</p>

	<p>head of cattle to 700 head of cattle.</p> <p>I am an owner of land in the vicinity of this dairy farm on Lot 2 McConnell Road. I am opposed to such expansion as I have serious concerns over the environmental impact, the smell and the proximity of potential future development of the lands north of the property as proposed in Plan Winnipeg 2035. The ground water quality would be compromised from the waste runoff. I am aware of the linings put under the pools, but they are still at risk of entering the underground water system. The size of the waste pool now is clearly visible on google maps. Increasing the population by 3.5x will have significant impact on all current and future residential properties. If you have ever traveled past a feed lot in Southern Alberta, you would appreciate what I mean. I think it is ill advised to have that many farm animals in such close proximity to an urban center. This expansion should only be permitted outside of the Perimeter at a safe distance from populated areas. Disease from animals is also a concern with that many animals in close proximity to humans. Thank you for your consideration and allowing me to express my concerns</p>
<p>7. D. Walker 1550 Charleswood Rd RM Macdonald</p>	<p>Odour Concern</p> <p>Thank you for the notification regarding the proposed expansion of dairy farm TRC-12-042.</p> <p>We have no concerns with the current dairy operation. There has never ever been any issues/odour etc.</p> <p>We are not in opposition to the proposed expansion.</p> <p>We just wish to voice our concern with the possibility of odour due to the increased production of manure.</p> <p>We assume that within the approval of the expansion, there would be a process to deal with any unforeseen odour issues.</p>

A FULL COPY OF THE PUBLIC COMMENTS AS WELL AS THE PROPONENT'S RESPONSE MAY BE VIEWED ON THE PUBLIC REGISTRY AT THE FOLLOWING LINK

<http://www.gov.mb.ca/mr/livestock/index.html>

See Appendix C for the proponent's response to the public comments.

E. CONCLUSIONS & RECOMMENDATIONS

Overall Conclusion

The information contained in the Site Assessment submitted by the proponent generally meets provincial requirements. In addition, based on available information it has been

determined that the proposed operation will not create a risk to health, safety or the environment, or that any risk can be minimized through the use of appropriate practices, measures and safeguards.

Recommended Actions to Council

- As per Section 114(1) of *The Planning Act*, Council must set a date for a Conditional Use hearing after it receives this report.
- As per Section 114(2) of *The Planning Act*, at least 14 days before the date of the hearing, Council must:
 - a) send notice of the hearing to
 - (i) the applicant,
 - (ii) the Minister, (c/o the Portage la Prairie Community & Regional Planning Office)
 - (iii) all adjacent planning districts and municipalities, and
 - (iv) every owner of property located within three kilometres of the site of the proposed livestock operation, even if the property is located outside the boundaries of the planning district or municipality;
 - b) publish the notice of hearing in one issue of a newspaper with a general circulation in the planning district or municipality or when there is no newspaper with a general circulation in the area, post the notice in the office of the planning district or municipality and at least two other public places in the district or municipality; and
 - c) post a copy of the notice of hearing on the affected property in accordance with Section 170 of *The Planning Act*.
- Council should specify the type(s) of operation, legal land location, number of animals in each livestock category and total animal units in its Conditional Use Order.
- As per Section 117 of *The Planning Act*, Council must send a copy of its (Conditional Use Order) to
 - a) the applicant;
 - b) the minister (c/o the Portage la Prairie Community & Regional Planning Office); and
 - c) every person who made representation at the hearing.
- That should Council consider approving a conditional use permit, that as a condition of approval:
 - a) the entire farm property be zoned “AG” Agricultural General as a condition of approval; and

b) a variance be required to vary the separation distance from 5,280 feet to 3,960 feet between the earthen manure storage structure to the nearest house (NW 4 & SW 4-12-2E) and the separation distance from 3,969 feet to 3,730 feet between the barn and the same residence.

Note: A variance may be required from both the earthen manure storage structure and barn to the City of Winnipeg boundary (New Neighbourhood designation). It is recommended that the Municipality consult their legal counsel on this matter.

Note: That as per Section 174(1) of The Planning Act, Council can hold all required hearings together in a single combined hearing. It is recommended that during the course of this public hearing, Council first deal with the matter of the rezoning, then the conditional use order followed by the variation order(s).

Council is welcome to contact Manitoba Sustainable Development's Technical Review Officer with Environmental Approvals Branch, as well as Regional Environmental Compliance and Enforcement staff to discuss environmental compliance issues, if applicable, with respect to the Livestock Manure and Mortalities Management Regulation (M.R. 42/98).

Recommended Actions to Proponent

- That the proponent:
 - a) obtain the necessary rezoning and conditional use permit as noted above;
 - b) acquire a variance to vary the separation distance from 5,280 feet to 3,730 feet between the earthen manure storage structure to the nearest house (NE ¼ 32-09-02E – Lot 2, Plan 4215;53144 Road 8E) and the separation distance from 3,969 feet to 3,730 feet between the barn and the same residence and
 - c) undertake any additional measures identified through subsequent provincial licensing or permitting in order to minimize any identified risks to health, safety and the environment be undertaken.

Note: The proponent may be required to obtain a variance from both the earthen manure storage structure and barn to the City of Winnipeg boundary (New Neighbourhood designation).

F. TECHNICAL REVIEW COMMITTEE MEMBERS

Name	Department	Title	Telephone
Don Malinowski Chair	Municipal Relations	Senior Planner Community & Regional Planning Branch	945-8353
Petra Loro	Agriculture	Livestock Environment Specialist Agri-Resource Branch	945-3869
Andrea Bergman	Sustainable Development	Technical Review Officer Environmental Approvals Branch	945-4384
Jeff DiNella	Infrastructure	Senior Development Review Technologist Highway Planning and Design Branch	945-2664

Appendix A
Manitoba Agriculture
Details of Land Assessment

In areas of lower livestock intensity such as the RM of MacDonald, it is currently the Province of Manitoba's policy to require sufficient suitable land for all of the nitrogen and half of the phosphorus generated by the livestock. This policy assumes that more land is available and could be brought into the Anseeuw Dairy manure management plan to balance phosphorus with crop removal, should it be necessary in the future.

In order to determine the land requirements for Anseeuw Dairy, nitrogen and phosphorus excretion by all of the mature cows and their associated livestock is compared to nitrogen utilization and phosphorus removal by the proposed crops to be grown. The calculation takes into consideration typical, modern feeding practices for dairy production and realistic, long-term crop yields from the Manitoba Agricultural Services Corporation (MASC) for the RM of MacDonald.

Land suitability is determined using soil testing for phosphorus and soil survey to establish the agriculture capability. All of the lands with soil tests were below 60 ppm Olsen P, as required to be considered suitable. Detailed soil survey is available to determine the agriculture capability of the land. The agriculture capability of the land included in the proposal includes Class 2 and 3. The limitations include salinity (N), density (D) and wetness (W). Class 1 to 5 soils are considered suitable for manure application.

Anseeuw Dairy is required to demonstrate that they have access to at least 1419 acres of suitable land for manure application. This is likely an over-estimate of the land requirement as the soil capability is very good and the estimated removal rate is likely greater than what was generated using the long-term MASC yields. Anseeuw Dairy has exceeded the land requirement with the 1920 suitable acres for manure application provided.

Appendix B

Water Science and Watershed Management Branch – Sustainable Development:

- Staff in the Water Science and Management Branch have reviewed the site assessment for Anseeuw Dairy Farm Ltd. in the RM of MacDonald and have the following comments:
- Proper nutrient management applications that avoid excess loss of nutrients to surface waters are needed on lands receiving manure in southern Manitoba because long-term trend analysis of total phosphorus and total nitrogen has shown significant increases in these nutrients in the Assiniboine and Red rivers (Jones and Armstrong 2002).
- The proponent plans to inject a portion of the manure and broadcast and incorporate the remainder. Injection of manure at appropriate rates poses lower environmental risk than other manure application methods. Application of liquid and/or solid manure to alfalfa is surface broadcast without incorporation due to the perennial nature of the crop. In order to reduce the risk of runoff losses, application should not occur to saturated, frozen or snow covered soils or when heavy rainfall is expected within 24 hours. Surface applications of manure are most

susceptible to runoff losses of nutrients when runoff events occur within the first week or two after application. Applications to frozen soil or to soil shortly before the soil freezes are therefore much more likely to result in nutrient losses during spring snowmelt – ideally fall surface applications of manure should occur well ahead of the soil freezing.

- Manure tends to have an excess of phosphorus (P) compared to nitrogen (N) and as a result, for most crops, application at N-based rates causes a buildup of soil P. Practices which minimize N losses from the manure improve the N:P ratio in the manure and help reduce P buildup when manure is applied at N-based rates.

- The proponent has acknowledged the setback areas for all water features and have been observed and excluded from land base calculations. Setbacks should be clearly communicated to and observed by those involved in manure applications to minimize the risk of nutrients entering surface waters.

- Manitoba has included phosphorus as a nutrient by which fertilizer applications through manure, synthetic fertilizer, and municipal waste sludge to agricultural lands may be limited. To remain environmentally sustainable over a long-term planning horizon of 25 years or more, the proponent must be able to balance phosphorus inputs from applied manure and other nutrient sources such as commercial fertilizers with crop removal rates to avoid further build-up in soils. Consequently, sufficient land base must be available so manure can be applied at no more than 1 times crop removal rates. For long-term planning purposes, the proponent needs to have sufficient land available to ensure that manure can be applied at 1 times crop removal. The proponent acknowledges that 2839 acres may be required for long-term environmental sustainability of the operation with current crop choices and yield potential. The proponent has identified 1920 acres for manure application which is sufficient to apply at 2 times crop P removal (1419 acres required) which meets TRC requirements. It is important to rotate manure application across all spread fields so to prevent excessive P buildup when applying at 2x crop P removal rates.

- The site is located in an area where the groundwater quality is poor so there are few records of wells in the area. If there are unused water wells on the site or spread fields these shall be properly sealed. A sealed well report must be filed with the Groundwater Management Section of Sustainable Development for each well sealed. Information on well sealing and the sealed well report are available from Sustainable Development (204-945-6959) or http://www.gov.mb.ca/sd/waterstewardship/water_quality/wells_groundwater/index.html

All but the most basic wells should be sealed by a well drilling professional. A list of currently licensed well drilling professionals can be accessed from the above web page.

- All groundwater features, including water wells, should be given as a minimum, the amount of buffer during manure applications as outlined in the regulations.

Appendix C

Proponent's Response to Public Comments

To: Livestock Technical Review Committee
Re: Concerns expressed – Anseeuw Dairy expansion, R.M. of MacDonald
May 16, 2018

I would like to acknowledge the concerns raised by the seven area residents regarding our proposed Anseeuw Dairy expansion project in the RM of Macdonald. We want to assure them that we respect their opinions.

As many of the comments raised common themes this is a response to all the concerns expressed.

To provide some background Anseeuw Dairy has existed at our present site for 98 years. During that time we have had no complaints regarding the operation of the farm and anticipate that the impact on the surrounding area will not substantially change with the proposed increase in herd size at our farm. We believe we are good stewards of the land.

Provincial Government requirements for new and expanding farms

Manitoba livestock producers are required to go through a provincial government approval process for developing or expanding operations. The process includes the preparation of a detailed site assessment, public review and a municipal conditional use hearing prior to receiving a permit to construct the facility. All aspects of the site assessment proposal including municipal siting requirements, manure management and potential environmental impacts are reviewed by the Provincial Government Technical Review Committee.

Water Quality

Surface and groundwater protection is provided through environmental regulations and through monitoring and enforcement. Manure storages must be designed by a professional engineer and approved by Manitoba Sustainable Development. Manure application is controlled by requiring manure management plans and soil, manure and source water testing. If an operation is over 300 animal units a manure management plan must be filed annually and approved by Manitoba Sustainable Development prior to manure application. We have sufficient land (acres) to inject/spread the manure for the proposed expansion. We are committed to sustainable farming practices.

Property values

The expansion should have no impact on current or future residential properties. We do not anticipate any noticeable effect on air quality as we will continue to maintain our high standards and farm practices that we have developed over the last 98 years of operation on this site. I cannot see that property values would be affected.

Odours and Allergies

The proximity of our farm to neighbouring homes should have no impact on their allergies to animals. Concerns were also expressed about odours – if nearby residents have not encountered a smell in the past, I doubt they will in the future. The lagoon would give off a smell when we are agitating it, but that would only affect neighbours if the wind was in a specific direction and might only occur 2-6 days per year.