## Technical Document RA24014

# Part 2 – Technical Requirements



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

| NRCB USE ONLY                       | Application number | Legal land description |
|-------------------------------------|--------------------|------------------------|
| Approval Registration Authorization | RA24014            | SE 8-41-26 W4M         |
| Amendment                           |                    |                        |

## **APPLICATION DISCLOSURE**

This information is collected under the authority of the Agricultural Operation Practices Act (AOPA), and is subject to the provisions of the Freedom of Information and Protection of Privacy Act. This information is public unless the NRCB grants a written request that certain sections remain private.

# Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

18 Date of signing

Signature

Print name

SEFF

Corporate name (if applicable)

## GENERAL INFORMATION REQUIREMENTS

**Proposed facilities:** list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

| Proposed facilities |             |         | Dimensions (m)<br>(length, width, and depth) |
|---------------------|-------------|---------|--|
| 104 FREE STALL      | BARN FOR    | PREGNAT | 262 FT × 60 FT                               |
| HEIFERS (Bred He    | ifers Barn) |         | (79.9 m x 18.3 m)                            |
|                     |             |         |  |
|                     |             |         |  |
| 11 (A               |             | 14      | 24 - X                                       |

| Existing facilities SEE PERMITT# RA 10007                                   | Dimensions (m)<br>(length, width, and depth) | NRCB USE ONLY |  |
|---|--|---------------|--|
| FREESTALL BARN.   | 264 FT X 112 FT                              | Verified      |  |
| MILKING PARLOR + CALF BARN  | 132 FT X 92 FT                               | Verified      |  |
| DRY COW + CLOSE UP BARN   | 132 FT X 92 FT                               | Verified      |  |
| NRCB USE ONLY<br>Existing dairy CFO with 400 milking cows plus replacements |  |               |  |



| Existing facilities continued         | Dimensions (m)<br>(length, width, and depth)      | NRCB USE ONLY |
|---------------------------------------|---|---------------|
| LIQUID MANURE LAGOON                  | (length, width, and depth)<br>360 FT X 150 W X 20 | FT. Verified  |
|                                       |   |               |
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NRCB Natural Resources Conservation Board

Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

| new facility is replacing an o | Id facility, please explain what will happen to the | old facility and when. N/A |
|--------------------------------|---|----------------------------|
|                                |   |                            |
|                                |   |                            |
|                                |   |                            |
|                                |   |                            |
|                                |   |                            |
|                                |   |                            |

Construction completion date for proposed facilities

TA OCT 2025

Additional information

**Livestock numbers:** Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

| Livestock category and type<br>(Available in the Schedule 2 of the Part 2 Matters<br>Regulation) | Permitted number | Proposed increase or<br>decrease in number<br>(if applicable) | Totai |
|--|------------------|---|-------|
| AO Comments:   | 14               |   |       |
| Dairy cows plus replacements   | 400              | 0   | 400   |
|  |                  |   |       |
|  |                  |   |       |
|  |                  |   |       |
|  |                  |   |       |
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|  |                  |   |       |



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

**DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE** 

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO) Date and sign one of the following four options

## OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I DO want my water licence application coupled to my AOPA permit application.

Signed this \_\_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_.

Signature of Applicant or Agent

## **OPTION 2: Processing the AOPA permit and Water Act licence separately**

- 1. I (we) acknowledge that the CFO will need a new water licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
- 2. I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
- In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the Water Act.
- 4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
- 5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
- 6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
- 7. Provide: Water licence application number(s)

Signed this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Signature of Applicant or Agent

ignature of Applicant or Agent

## **OPTION 3: Additional water licence not required**

- 1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
- 2. **Provide**: Water license number(s) or water conveyance agreement details <u>41172</u>

Signed this 11 day of MARCH , 2034.



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# OPTION 4: Uncertain if Water Act licence is needed; acknowledgement of risk (for existing CFOs only)

- 1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
- 2. If a new *Water Act* licence is needed, I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
- 3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
- 4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will <u>not</u> be relevant to EPA's consideration of whether to grant my *Water Act* licence application, if a new water licence is needed.
- 5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
- 6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
- Provide: Water license number(s) or water conveyance agreement details \_\_\_\_\_\_

Signed this \_\_\_\_\_ day of \_\_\_\_\_\_, 20\_\_\_\_\_,

Signature of Applicant or Agent





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Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

#### **GENERAL ENVIRONMENTAL INFORMATION**

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities) Facility description / name (as indicated on site plan)

| Facili                       | ity and environmental risk   |                          | Faci              | lities            |                    |                                 | NRCB USE ONLY   |
|------------------------------|--|--------------------------|-------------------|-------------------|--------------------|---------------------------------|---|
|                              | information  | Existing                 | Proposed 1        | Proposed 2        | Proposed 3         | Meets<br>requirements           | Comments  |
| Flood plain<br>information   | What is the elevation of the floor of<br>the lowest manure storage or<br>collection facility above the 1:25<br>year flood plain or the highest<br>known flood level? | 2 >1 m 3 ≤ 1 m plus 1(m) | 2 >1 m<br>□ ≤ 1 m | □ >1 m<br>□ ≤ 1 m | □ > 1 m<br>□ ≤ 1 m | YES NO<br>YES with<br>exemption | >1 m  |
| Ja e                         | How many springs are within 100 m<br>of the manure storage facility or<br>manure collection area?  | 0                        | 0                 |                   |                    | YES NO<br>YES with<br>exemption | None observed during a site visit   |
| Surface water<br>information | How many water wells are within<br>100 m of the manure storage<br>facility or manure collection area?  | 2                        | 0                 |                   |                    | YES NO<br>YES with<br>exemption | Two WWs located w/i 100 m of existing barns, but further away from the proposed barn. |
| Su<br>ir                     | What is the shortest distance from<br>the manure collection or storage<br>facility to a surface water body?<br>(e.g., lake, creek, slough, seasonal)                 | 800                      | 800               |                   |                    | YES NO<br>YES with<br>exemption | Slough located SE of the CFC towards QE II highway                                    |
| iwater<br>lation             | What is the depth to the water table?  |                          | 3 M               |                   |                    | YES NO<br>YES with<br>exemption | >3 m  |
| Groundwater<br>information   | What is the depth to the groundwater resource/aquifer you draw water from?   | 280 FT                   | 280 FT            | 1                 |                    | YES NO<br>YES with<br>exemption | UGR identified at 17.7 m  |

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)

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## NRCB USE ONLY

## ENVIRONMENTAL RISK SCREENING INFORMATION

#### **ERST** for **proposed** facilities

| Facility             | Groundwater score | Surface water score | File number |
|----------------------|-------------------|---------------------|-------------|
| Pregnant/Heifer Barn | Low               | Low                 | RA24014     |
|                      |                   |                     |             |
|                      |                   |                     |             |
|                      |                   |                     |             |
|                      |                   |                     |             |
|                      |                   |                     |             |

#### ERST for <u>existing</u> facilities

| Facility                       | Groundwater score | Surface water score | File number |
|--------------------------------|-------------------|---------------------|-------------|
| EMS                            | Low               | Low                 | RA15024     |
| Dairy barn                     | Low               | Low                 | RA15024     |
| Open front sheds and pens      | Low               | Low                 | RA15024     |
| Dry/close up & fresh cows barn | Low               | Low                 | RA15024     |
|                                |                   |                     |             |
|                                |                   |                     |             |
|                                |                   |                     |             |
|                                |                   |                     |             |

**ERST** related comments:



| NRCB USE ONLY<br>WATER WELL AND SURFACE  | WATER INFORMATI                | ON                           |                        |
|--|--------------------------------|------------------------------|------------------------|
| Well IDs:41172, 93385 and  | 1670051                        |                              |                        |
| Surface water related concerns from di<br>Groundwater related concerns from dir<br>Water wells M/A |                                |                              |                        |
| If applicable, exemption for 100 m dist Surface water  | ance requirements applied:     | ☐ YES ☐ NO Condition         | n required: 🗌 YES 🗌 NO |
| If applicable, exemption for 30 m dista  |                                | YES NO Condition             | required: YES NO       |
| Water Well Exemption Screening T   | ool 🔽 N/A                      |                              |                        |
| Water Well ID  | Preliminary Screening<br>Score | Secondary Screening<br>Score | Facility               |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
| Groundwater or surface water relation  | ted comments:                  |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |
|  |                                |                              |                        |



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

## DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

|                       | Legal land description |              |                             |                          | NRCB USE ON     | LY                                  |                      |
|-----------------------|------------------------|--------------|-----------------------------|--------------------------|-----------------|-------------------------------------|----------------------|
| Neighbour name(s)     |                        | Distance (m) | Zoning<br>(LUB)<br>category | MDS<br>category<br>(1-4) | Distance<br>(m) | Waiver<br>attached<br>(if required) | Meets<br>regulations |
| LOHNIE & MERLO SULZLE | NW 8.412604            | 500          | Agriculture                 | 1                        | 406             |                                     | Yes                  |
| 0 0                   | SW 8 41 26 WY          | 600          | Agriculture                 | 1                        | 500             |                                     | Yes                  |
|                       | NW-8-41-26 W4          | 160          | Agriculture                 | 1                        | 160             |                                     | Yes (*)              |
|                       |                        |              |                             |                          |                 |                                     |                      |
|                       |                        |              |                             |                          |                 |                                     |                      |

#### LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

|                        |                        |                       |   | NRCB US             | SE ONLY                                |
|------------------------|------------------------|-----------------------|---|---------------------|--|
| Name of land owner(s)* | Legal land description | Usable area**<br>(ha) | Soil zone ***   | Usable area<br>(ha) | Agreement<br>attached<br>(if required) |
|                        |                        |                       |   |                     |  |
|                        |                        |                       | da<br>Marine Marine Marine<br>Marine Marine Marine<br>Marine Marine Ma |                     |  |
|                        |                        |                       | Total   |                     |  |

\* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

\*\* Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 Manure Spreading Regulations)

\*\*\* Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)

(\*) See next page

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| NRCB USE ONLY  |  |                        |                        |                                 |       |         |                 |                |
|--|--|------------------------|------------------------|---------------------------------|-------|---------|-----------------|----------------|
| MINIMUM DISTANCE SEP   | ARATION  |                        |                        |                                 |       |         |                 |                |
| Methods used to determine distance   | e (if applicable): _                             | _Google                | Earth                  |                                 |       |         |                 |                |
| Margin of error (if applicable):   |  |                        |                        |                                 |       | _       |                 |                |
| Requirements (m): Category 1:4   | 49 Cate <u>c</u>                                 | jory 2:                | 599                    | Category 3                      | 3:    | _749    | Category 4:     | 1,198          |
| Technology factor:   |  |                        |                        |                                 |       | YES 🔽   |                 |                |
| Expansion factor:  |  |                        |                        |                                 |       | YES 🔽   |                 |                |
| MDS related concerns from directly   | affected parties of                              | or referral            | agencies               | 5:                              |       | YES 🔽   | NO              |                |
| There is a residence located 160<br>dairy CFO started its operation,<br>MDS does not apply with respect<br>opposite direction from that resi<br>LAND BASE FOR MANURE | and therefore, a<br>t to that residen<br>idence. | iccording<br>ice. Addi | y to Sect<br>tionally, | ion 8 of Standa<br>the new barn | ards  | and Adm | ninistration Re | egulation, the |
| Land base required:N/A for   | applications for a                               | n authoriz             | ation_                 |                                 |       |         |                 |                |
| Land base listed:  |  |                        |                        |                                 |       |         |                 |                |
| Area not suitable:   |  |                        |                        |                                 |       |         |                 |                |
| Available area   |  |                        |                        | Requirement me                  | et: [ | YES [   | ] NO            |                |
| Land spreading agreements require  | ed: 🗌 YES  | □ NO                   |                        |                                 |       |         |                 |                |
| Manure management plan:  | T YES  | □ NO                   |                        | If yes, plan is a               | ttach | ed: 🗌   |                 |                |
| PLANS  |  | ,                      |                        |                                 |       |         |                 |                |
| Submitted and attached construction  | on plans:  | VES                    | 🗆 NO                   |                                 |       |         |                 |                |
| Submitted aerial photos:   |  | VES YES                | 🗆 NO                   |                                 |       |         |                 |                |
| Submitted photos:  |  | □ YES                  | <b>V</b> NO            |                                 |       |         |                 |                |
| GRANDFATHERING   |  |                        |                        |                                 |       |         |                 |                |
| Already completed:   |  | VES                    |                        | □ N/A                           |       |         |                 |                |
| If already completed, seeApprov  | al RA08035                                       |                        |                        |                                 |       |         |                 |                |
|  |  |                        |                        |                                 |       |         |                 |                |



| NRCB USE ONLY             |                                |                 |           |      |          |                   |                      |  |
|---------------------------|--------------------------------|-----------------|-----------|------|----------|-------------------|----------------------|--|
| ALL SIGNATURES IN FILE    |                                | YES INO         |           |      |          |                   |                      |  |
| DATES OF APPROV           | AL OFFICER SITE V              | ISITS           |           |      |          |                   |                      |  |
| April 15, 2024            |                                |                 |           |      |          |                   |                      |  |
|                           |                                |                 |           |      |          |                   |                      |  |
|                           |                                |                 |           |      |          |                   |                      |  |
|                           |                                |                 | <u> </u>  |      |          |                   |                      |  |
| CORRESPONDENC             | E WITH MUNICIPAL               | ITIES AN        | ND REFERR | AL / | AGENCIES | 5                 |                      |  |
| Date deeming letters sent | t:March 19, 2024               |                 |           |      | -        |                   |                      |  |
| Municipality:Lacom        | be County                      |                 |           |      |          |                   |                      |  |
| V letter sent             | $\checkmark$ response received | W writter       | n/email   |      | verbal   |                   | no comments received |  |
| Alberta Health Service    | es: V/A                        |                 |           |      |          |                   |                      |  |
| letter sent               | □ response received            | 🛛 writter       | n/email   |      | verbal   |                   | no comments received |  |
| Alberta Environment a     | nd Parks: 🛛 N/A                |                 |           |      |          |                   |                      |  |
| Vietter sent              | Vresponse received             | Writter         | n/email   |      | verbal   |                   | no comments received |  |
| Alberta Transportation    | : 🔽 N/A                        |                 |           |      |          |                   |                      |  |
| letter sent               | □ response received            | uritter writter | n/email   |      | verbal   |                   | no comments received |  |
| Alberta Regulatory Ser    | vices: 🗆 N/A                   |                 |           |      |          |                   |                      |  |
| Vetter sent               | ☐ response received            | uritter         | n/email   |      | verbal   | $\checkmark$      | no comments received |  |
| Other:Atco                | Cas and Pinelines              |                 |           |      | □ N/A    |                   |                      |  |
|                           |                                |                 |           |      |          |                   | ,                    |  |
| letter sent               | ☐ response received            | urittei writtei | n/email   |      | verbal   | $\mathbf{\nabla}$ | no comments received |  |
| Other:                    |                                |                 |           |      | 🔽 N      | /A                |                      |  |
| 🗌 letter sent             | □ response received            | 🗌 writtei       | n/email   |      | verbal   |                   | no comments received |  |
|                           |                                |                 |           |      |          |                   |                      |  |
|                           |                                |                 |           |      |          |                   |                      |  |
|                           |                                |                 |           |      |          |                   |                      |  |



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area and/or manure storage facility(ies)

#### SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities -Concrete liner

(complete a copy of this section for **EACH** barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan)

REGNANT HEIFER 1. 2.

| Manu | Length (m)        | Width (m) | Depth below grade to the bottom of the liner (m) | NRCB USE ONLY<br>Estimated storage capacity (m <sup>3</sup> ) |
|------|-------------------|-----------|--|---|
| 1.   | 262 FT            | 60 FT     | 0  |   |
| 2.   | (79.9 m x 18.3 m) |           |  |   |
|      |                   |           | TOTAL CAPACITY                                   |   |

I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB Short-Term Solid Manure Storage Requirements Fact Sheet.

#### Surface water control systems

Describe the run-on and runoff control system

ROOFS & WALLS

#### Liner protection

Describe how the physical integrity of the liner will be maintained

| course non are privates into | grity or the ini | er mit be methemen |                            |
|------------------------------|------------------|--------------------|----------------------------|
| INSPECT                      | Far              | CRACKS.            | p.1                        |
|                              |                  |                    |                            |
|                              |                  |                    | Requirements met: VES D NO |



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area and/or manure storage facility(ies)

#### SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities -Concrete liner (cont.)

| Concrete liner details  |   |
|---|---|
| Concrete thickness  | Method of sulphate protection:  |
| 5 INCHES  | TYPE SO   |
| Concrete strength   | Concrete reinforcement size and spacing   |
| 28 MPA  | 16 INCHES ONC (10 mm)   |
| Concrete requirements can be found in Technical Guideline As<br>Guideline minimums:<br>Solid manure: 25MPa (D)<br>Solid manure (wet): 30MPa (C)<br>Method of sulphate protection:<br>Type 50 or Type 10 with fly ash or equivalent<br>Additional information (attach as required) | gdex 096-93     NRCB USE ONLY       Requirements met:     YES       Condition required:     YES       NO       Report attached:     YES |
| NRCB USE ONLY   |   |
| Nine month manure storage volume requirements met 🗸   |   |
| Depth to water table: >3 m  | Requirements met: VES 🗖 NO  |
| Depth to Uppermost groundwater resource:17.7 m  | Requirements met: 📈 YES 🗖 NO  |
| ERST completed: See ERST page for details   |   |
|   |   |
| Requirements met: VYES INO Details/comments:  |   |
| Concrete liner details<br>A condition will be included in the authorization re<br>constructed concrete liner meets the requirements   | equiring the permit holder to provide written proof that the<br>s under the technical guideline   |
| Leakage detection system required: 🔲 YES Ӣ NO If ye   | rs, please explain why.   |
|   |   |

Last updated February 26, 2021

|                 |   | 262'-0" (   |
|-----------------|---|---|
|                 | 93'-9%"   |   |
| NO. DESCRIPTION | Customer Information  | Notes Drown By Poul Templemon   |
|                 | Name Nielsen Farms<br>Project 2024 South Heifer Barr<br>Location Lacombe,AB | rn Contact 403-885-2327 Info posiBichinoolform.com Date March 13, 2024 Socie 111 1 of f |

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