

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 <input type="checkbox"/> Approval <input type="checkbox"/> Registration <input checked="" type="checkbox"/> Authorization <input type="checkbox"/> Amendment | Application number RA25033 | Legal land description NE 22-42-25 W4M |
|---|--------------------------------------|--|

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.

Date of signing June 7 2025
 Corporate name (if applicable) _____

Signature SIPKE DIJKSTRA
 Print name _____

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) (length, width, and depth) |
| (116' x 100') Dairy barn addition | 35.4 m x 30.5 m |
| | (plus pit, 35.3 m x 4.87 m x 2.4 m deep) |
| | |
| | |
| | |

| Existing facilities: list ALL existing confined feeding operation facilities and their dimensions | | |
|---|--|----------------------------|
| Existing facilities | Dimensions (m) (length, width, and depth) | NRCB USE ONLY |
| Lagoon (227' x 133') | 69.4 m x 40.5 m | Confirmed permitted CFO |
| Dairy Barn (milk cows) (115' x 120') + parlour | 35.0 m x 36.6 m | |
| Calf Barn (back 1/2 of shop) (40' x 40') | 12.2 mx 12.2 m | |
| NRCB USE ONLY | | |

Part 2 — Technical Requirements



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)

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Part 2 – Technical Requirements

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If a new facility is replacing an old facility, please explain what will happen to the old facility and when. ☒ N/A

AO Note: In conversation with the applicant, the proposed addition is to better accomodate the existing cow herd, as well as allow for increase in space requirements. New space will include some stalls as well as some bedding area.

Application does not seek to increase permitted livestock numbers

Construction completion date for proposed facilities November 2025

Additional information

Please reference Application RA25033

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 (Available in the Schedule 2 of the Part 2 Matters Regulation) | Permitted number | Proposed increase or decrease in number (if applicable) | Total |
|---|------------------|--|-------|
| | | | |
| No proposed changes to permitted livestock numbers | | | |
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Part 2 — Technical Requirements

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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.
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 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

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 _____

Signed this 7 day of June, 2025.

Signature of Applicant or Agent

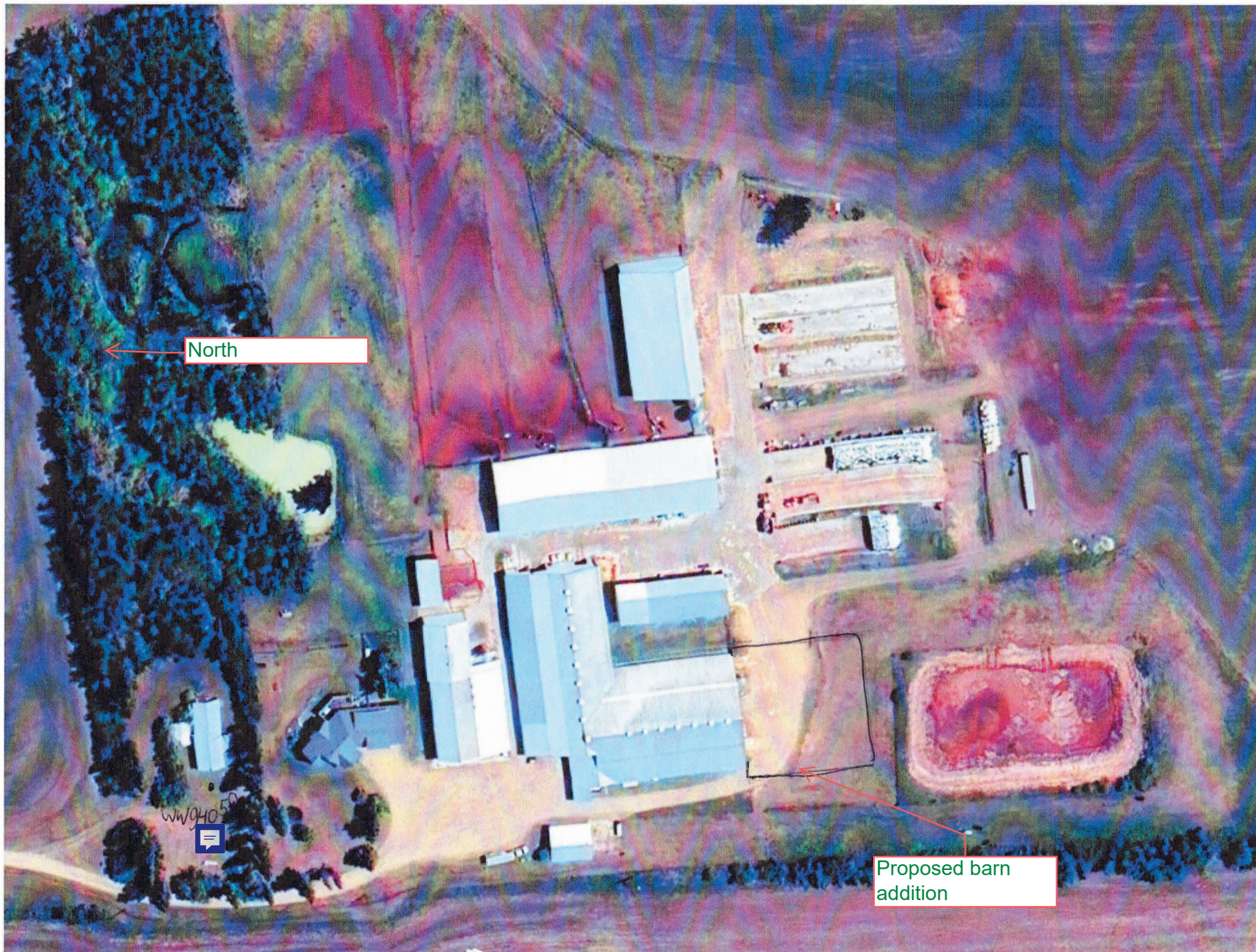
Part 2 – Technical Requirements

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 **not** 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.
7. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

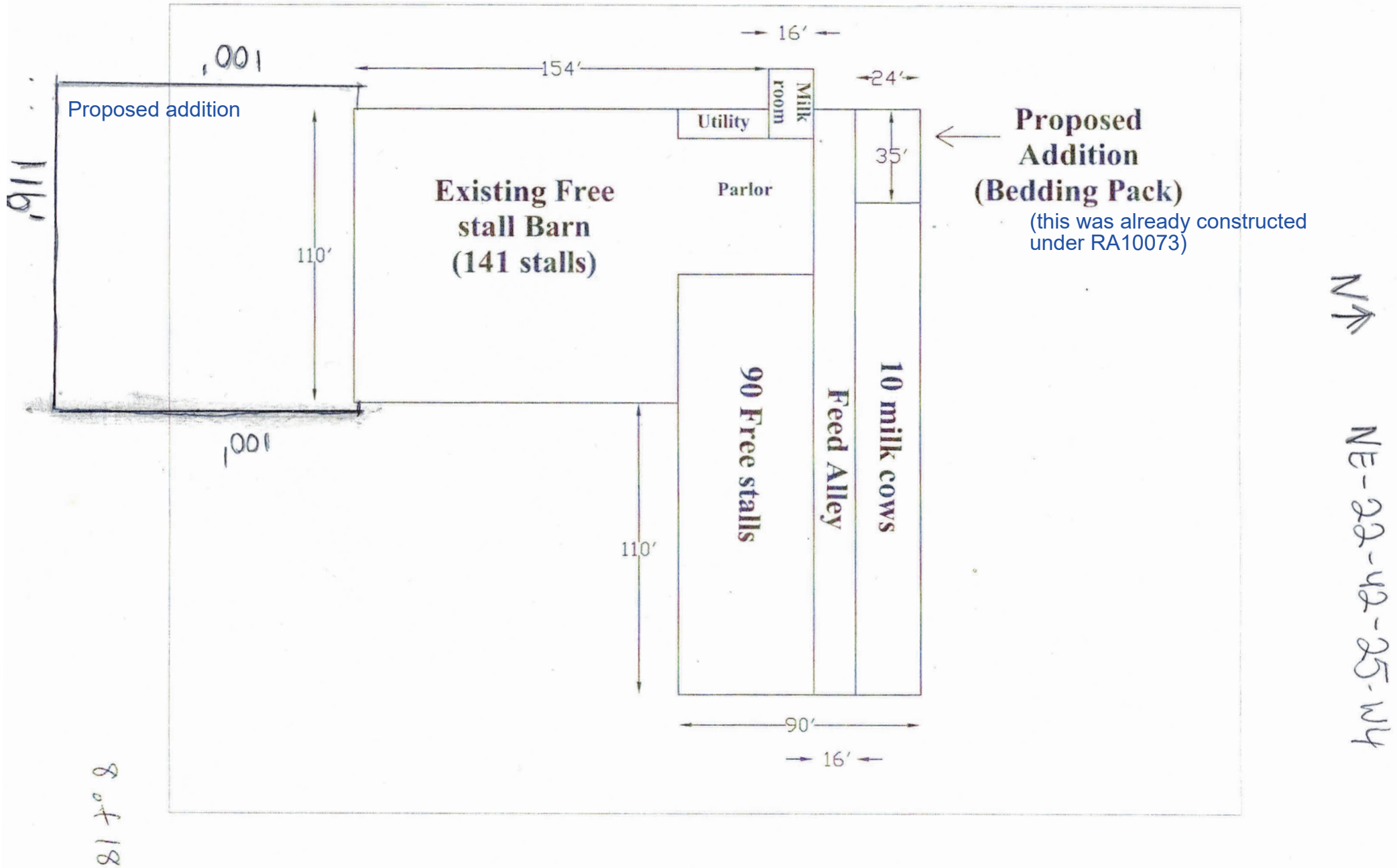


North

Proposed barn
addition

NE-22-42-25 W4

Barn Layout showing animal numbers and proposed bedding pack location



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)

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)*

Existing: Sylvanside Dairy Ltd

Proposed 1: addition to milk cow barn

Proposed 2: _____

Proposed 3: _____

| Facility and environmental risk information | | Facilities | | | | NRCB USE ONLY | |
|---|--|--|--|---|--|--|---|
| | | Existing | Proposed 1 | Proposed 2 | Proposed 3 | Meets requirements | Comments |
| Flood plain information | What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level? | <input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m | <input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m | <input type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m | <input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption | Confirmed not in flood plain |
| | | | | | | | |
| Surface water information | How many springs are within 100 m of the manure storage facility or manure collection area? | 0 | 0 | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption | Confirmed on site visit |
| | How many water wells are within 100 m of the manure storage facility or manure collection area? | 2 | 0 | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption | No wells within 100 m of proposed |
| | What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal) | 500 m | 500 | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption | Neighbouring dugout approx 310 m SE |
| Groundwater information | What is the depth to the water table? | > 2.4 m | >2.4m | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption | No evidence of shallow WT. Estimate > 5 m as no signs of it in EMS. |
| | What is the depth to the groundwater resource/aquifer you draw water from? | 21.3 m | 21.3 m | | | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption | UGR 18.3 m in WW 150556 |

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

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)

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

| Neighbour name(s) | Legal land description | Distance (m) | NRCB USE ONLY | | | | |
|-----------------------------|------------------------|--------------|-----------------------|--------------------|--------------|-------------------------------|-------------------|
| | | | Zoning (LUB) category | MDS category (1-4) | Distance (m) | Waiver attached (if required) | Meets regulations |
| Helen McCaughey | NW-22-42-25-W4 | > 700 m | Ag | 1 | 825 m | | Yes |
| Von Kowalchack | ptSW-27-42-25-W4 | >400 m | C.R. | 2 | 447 m | Yes | see note below |
| Dennis and Antoinette Ruter | ptNW-23-42-25-W4 | > 900 m | Ag | 1 | 1005 m | | Yes |
| Greg and Sharon Thalen | ptSW-27-42-25-W4 | > 500 m | Ag | 1 | 538 m | | Yes |
| Ken and Shari Groot | ptSW-22-42-25-W4 | > 900 m | Ag | 1 | 1014 m | | Yes |

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

| Name of land owner(s)* | Legal land description | Usable area** (ha) | Soil zone *** | NRCB USE ONLY | |
|------------------------|------------------------|--------------------|---------------|------------------|----------------------------------|
| | | | | Usable area (ha) | Agreement attached (if required) |
| N/A for authorizations | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| 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)

*Under AOPA's Standards and Administration Regulation 3 (5)(c), if an applicant is applying to expand an existing building, but the total amount of manure produced annually is not increasing, then MDS does not apply. This is the case for RA25033. I note that the proposed barn addition is located farther away from this residence than the existing CFO facilities.

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

ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

| Facility | Groundwater score | Surface water score | File number |
|---------------|-------------------|---------------------|-------------|
| Barn addition | Low | Low | RA25033 |
| | | | |
| | | | |
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ERST for **existing** facilities

| Facility | Groundwater score | Surface water score | File number |
|--|-------------------|---------------------|-------------|
| Heifer barn | Low | Low | RA18034 |
| Maternity barn | Low | Low | RA18034 |
| EMS | Low | Low | RA15048 |
| West calf shed and pen | Low | Low | RA15048 |
| *All other facilities were presumed lower risk than the EMS and west calf shed and pen, see RA15048. | | | |
| | | | |
| | | | |

ERST related comments:

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

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 94050 1200670

Surface water related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO

Groundwater related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO

Water wells ☒ N/A

If applicable, exemption for 100 m distance requirements applied: ☐ YES ☐ NO Condition required: ☐ YES ☐ NO

Surface water ☒ N/A

If applicable, exemption for 30 m distance requirements applied: ☐ YES ☐ NO Condition required: ☐ YES ☐ NO

Water Well Exemption Screening Tool ☒ N/A

| Water Well ID | Preliminary Screening Score | Secondary Screening Score | Facility |
|---------------|-----------------------------|---------------------------|----------|
| | | | |
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Groundwater or surface water related comments:

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

MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Aerial photography

Margin of error (if applicable): +/- 2 m

Requirements (m): Category 1: 384 m Category 2: 512 m Category 3: 640 m Category 4: 1024

Technology factor: ☐ YES ☒ NO

Expansion factor: ☐ YES ☒ NO

MDS related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO

LAND BASE FOR MANURE AND COMPOST APPLICATION

N/A for authorizations

Land base required: _____

Land base listed: _____

Area not suitable: _____

Available area: _____

Requirement met: ☐ YES ☐ NO

Land spreading agreements required: ☐ YES ☐ NO

Manure management plan: ☐ YES ☐ NO

If yes, plan is attached: ☐

PLANS

Submitted and attached construction plans: ☐ YES ☒ NO

Submitted aerial photos: ☒ YES ☐ NO

Submitted photos: ☐ YES ☒ NO

GRANDFATHERING

Already completed: ☒ YES ☐ NO ☐ N/A

If already completed, see RA10073

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

ALL SIGNATURES IN FILE

☒ YES ☐ NO

DATES OF APPROVAL OFFICER SITE VISITS

| | |
|----------------|--|
| August 1, 2025 | |
| | |
| | |

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: July 22, 2025

Municipality: Ponoka County

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

Alberta Health Services: ☒ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

Alberta Environment and Parks: ☐ N/A

☒ letter sent ☐ response received ☐ written/email ☐ verbal ☒ no comments received

Alberta Transportation: ☒ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

Alberta Regulatory Services: ☐ N/A

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

Other: Atco Gas and Pipeline, Lynx Energy ☐ N/A

☒ letter sent ☐ response received ☐ written/email ☐ verbal ☒ no comments received

Other: Battle River Power Coop ☐ N/A

☒ letter sent ☒ response received ☒ written/email ☐ verbal ☐ no comments received

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)

LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner

(complete a copy of this section for **EACH** proposed in-barn liquid manure storage facility with a concrete liner)

Facility description / name (as indicated on site plan)

1. Sylvanside Dairy Barn addition (pit)
2. Barn addition
- 3.

Manure storage capacity (use one row in the table for **EACH** in-barn storage. Attach additional pages if you require more rows)

| | Length (m) | Width (m) | Total depth (m) | Depth below ground level (m) | NRCB USE ONLY Calculated storage capacity (m ³) |
|----------------|------------|-----------|-----------------|------------------------------|---|
| 1. | 35.3 | 4.87 | 2.4 | 2.4 | 412 cubic metres |
| 2. | 35.4 m | 30.5 m | 0 | 0 | 0 |
| 3. | | | | | |
| TOTAL CAPACITY | | | | | 412 cubic metres |

Concrete liner details

| | | | | |
|--|------------------------------|--|--|--|
| Scrape alleys or unslatted portions of barn floors (if applicable) | Concrete thickness 6" | | Method of sulphate protection Tide 50, with sulphate resistant | |
| | Concrete strength 32 MPA | | Concrete reinforcement size and spacing 10 MM rebar at 18" grid | |
| In-barn manure pit floors | Concrete thickness 6" | | Method of sulphate protection Tide 50 with sulphate resistant | |
| | Concrete strength 32" MPA | | Concrete reinforcement size and spacing 15 MM rebar at 18" grid | |
| In-barn manure pit walls | Concrete thickness 8" | | Method of sulphate protection Tide 50 with sulphate resistant | |
| | Concrete strength 32 MPA | Horizontal reinforcement size and spacing 15 MM 2 ft center | Vertical reinforcement size and spacing 15 MM 3 ft center | |

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)

LIQUID MANURE COLLECTION AND/OR STORAGE: In-barn - Concrete liner (cont.)

Describe how the joints at the junction of the pit walls, pit floors and any other joints will be sealed
ruberized water stop transition wet placed into footing on floor and poured in to wall

Describe sealing practices for piping, etc. that penetrates the liner
clay

Concrete requirements can be found in Technical Guideline Agdex 096-93

Guideline minimums:

Solid manure: 25MPa (D)

Solid manure (wet): 30MPa (C)

Liquid manure: 32MPa (B)

Category A is required to be engineered

Method of sulphate protection:

Type 50 or Type 10 with fly ash or equivalent

NRCB USE ONLY

Requirements met: ☒ YES ☐ NO

Condition required: ☒ YES ☐ NO

Additional information

NRCB USE ONLY

Liquid manure storage volume calculator attached: ☐ YES ☒ NO

Depth to water table: > 5 m

Requirements met: ☒ YES ☐ NO

Depth to uppermost groundwater resource: 18.3 m

Requirements met: ☒ YES ☐ NO

ERST completed: ☒ see ERST page for details

Concrete liner requirements

Leakage detection system required: ☐ YES ☒ NO If yes, please explain why