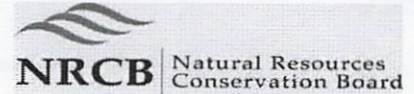


Application for Amendment



Application under the *Agricultural Operation Practices Act* to amend a permit for a confined feeding operation, manure collection area and/or manure storage facility(ies). ("Permit" means an NRCB-issued or grandfathered approval, registration, or authorization, including a grandfathered municipal development permit.)

NRCB USE ONLY <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization	NRCB Application number LA24002XA	Date Stamp NRCB APPLICATION RECEIVED 31 JAN 25
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CONTACT INFORMATION

Applicant Information		
Name: Henry Van Huigenbos	Corporate Name (if applicable) Van Huigenbos Farms	
Address: (Street/P.O. Box) P.O. Box 2517		
City/Town: Port Macleod	Province: A.B	Postal Code: TOL 020
Agent consent (if applicable)		
I, _____, hereby give consent for _____ <small>(name of applicant) (name of agent and company)</small>		
to act on my behalf or as my agent for this application.		
Signed this ____ day of _____, 20____.		_____ <small>Signature of Applicant</small>

LOCATION OF DEVELOPMENT

Which permit do you wish to amend? (List permit number and issuing agency.)	AO Comment: Applicant is applying to amend NRCB Approval LA24002X. LA 24002 N.R.C.B
Legal Land Description(s)	SE 21-09-26 W4 <small>(Qtr-Sec-Twp-Rg-W Mer)</small>

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 herein and acknowledge that the information provided in this application is true to the best of my knowledge.

Nov 5, 2024
Date of signing

Van Huigenbos Farms
Corporate name (if applicable)

Signature

Henry Van Huigenbos
Print name

Amendment Request Info

Pen layout and size change

Shortly after Permit #24002 was approved we came to realize that we did not have a comfortable level of storage capacity for water to service the new build. To accommodate this, we increased the size of our freshwater dugout. This came at the expense of feedlot space. As a result, our final feedlot layout compared to the permitted build is missing two pens directly to the north of the dugout (A), and the three pens directly to the east have been made 25% smaller (B). To compensate for the loss of this area, we are proposing to add a pie shaped piece of land to the south of the feedlot unto the south row (C). This would increase the size of these pens and reduce the total feedlot area lost by roughly 40%. As we still have ample pen space to accommodate 16,500 feeder calves, I do not feel that the loss of this area negatively affects any part of our business, or any directed related party. I would like to ask the N.R.C.B to allow for an amendment to Permit #24002 to reflect these proposed changes.

South Catch Basin Change

To accommodate the bigger dugout, we had to change the dimensions on the south catch basin. By increasing the width 2 metres, and the depth by roughly .5 metres we were able to shorten the length by 10 metres. The entire catch basin was also moved to the north, decreasing the distance between the two catch basins by 13 metres. Our new catch capacity is easily 10% bigger than our initial approved catch capacity, which in turn was already bigger than AOPA requirements. We feel that these changes were made not only to improve our water situation, but it also gives us much more flexibility on when we need to divert from the Willow Creek, and in part the L.N.I.D. This could reduce demand during peak irrigating times.

Application for Amendment – contd.



AMENDMENT INFORMATION REQUIREMENTS

Instructions:

For each part of your permit that you would like amended, please detail what change you would like made and why, and how your proposed change will meet the AOPA requirements. You may attach additional pages to this form to provide this information.

Please note that an approval officer may require a page (or pages) of the Part 2 application forms to be completed as part of this application for amendment, depending on what changes are proposed.

AO Comment: Applicant is applying to amend the dimensions of the following facilities:

North Catch Basin to the as built dimensions of 185 m x 42 m x 2.25 m deep (average). The permitted dimensions in LA24002X were 185 m x 40 m x 2 m deep. Applicant indicated that the depth of the catch basin slopes from 2 m deep in the north portion to 2.5 m deep in the south portion, to allow for easier emptying and removal of solids.

South Catch basin to the as built dimensions of 96 m x 42 m x 2.25 m deep (average). The permitted dimensions in LA24002X were 105 m x 40 m x 2 m deep. Applicant indicated that the depth of the catch basin slopes from 2 m deep in the south portion to 2.5 m deep in the north portion, to allow for easier emptying and removal of solids.

West pens to dimensions 152.1 m x 35.7 m (5 rows), 38.8 m x 35.7 m (2 rows), and 38.8 m x 45.9 m, irregular shape (1 row). The permitted dimensions in LA24002X were 152.1 m x 36.9 m (6 rows) and 50.7 m x 36.9 m (2 rows).

East pens to dimensions 152.8 m x 35.7 m (5 rows) and 152.8 m x 62.5 m, irregular shape (1 row). The permitted dimensions in LA24002X were 153.4 m x 36.9 m (6 rows).

AO Comment: During the first post construction inspection on October 31, 2024, of both catch basins, the North pens, and partially constructed West pens, I noticed that the not-yet built portion of the West pens would be different than what was permitted in LA24002X. I asked the applicant if there was going to be a change to the site layout, and he informed me at that time that due to having to construct the freshwater dugout larger, they would need to alter some of the pens to accommodate the larger freshwater dugout. I informed the applicant that any alteration to the site layout will require an amendment application, and the affected facilities could not be constructed.



5	12SEP'24	ISSUED FOR REVIEW
4	31JUL'24	ISSUED FOR REVIEW
3	29JUL'24	ISSUED FOR REVIEW
2	24JUN'24	ISSUED FOR REVIEW
1	20OCT'23	ISSUED FOR REVIEW
ISSUE	DATE	REVISION DESCRIPTION

LEGEND / NOTES

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH OF SERVICES PRIOR TO CONSTRUCTION.
- ALL UNDERGROUND UTILITIES, INCLUDING GAS, OIL, TELUS, ELECTRICAL, MUNICIPAL WATER, ETC., AS SHOWN ON THIS PLAN, ARE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO LOCATION, OR OMISSIONS. THE CONTRACTOR MUST CONTACT THE VARIOUS UTILITIES FOR ON-SITE INFORMATION AS TO ACTUAL LINE LOCATIONS PRIOR TO STARTING CONSTRUCTION.
- IT IS THE LANDSCAPER'S RESPONSIBILITY TO ENSURE THAT RUNOFF FOLLOWS THE RECOMMENDED DRAINAGE PATHS AND NO STANDING WATER OCCURS NEAR THE RESIDENCE.

— x — x — x — x —

NE16 9-26-W4

WILDE BROTHERS
ENGINEERING LTD.
PERMIT TO PRACTICE
P08438

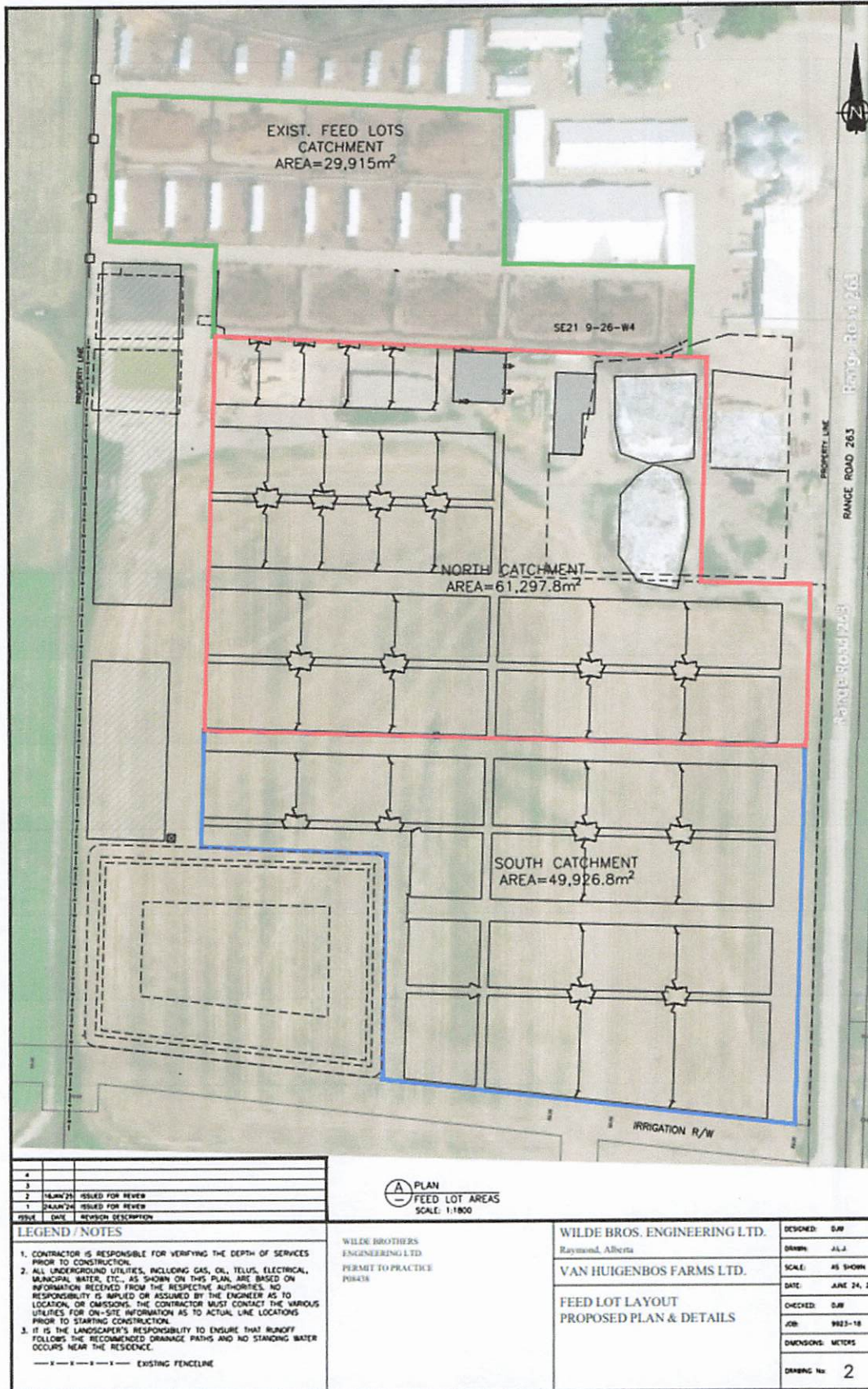
WILDE BROS. ENGINEERING LTD.
Raymond, Alberta

VAN HUIGENBOS FARMS LTD.

**FEED LOT LAYOUT
PROPOSED PLAN & DETAILS**

DESIGNED: DJW
DRAWN: J.L.J.
SCALE: AS SHOWN
DATE: OCTOBER 1, 2023
CHECKED: DJW
JOB: 9923-18
DIMENSIONS: METERS

Application for Amendment LA24002XA Page 4 of 9 **1**



4		
3		
2	16/JAN/24	ISSUED FOR REVIEW
1	24/JAN/24	ISSUED FOR REVIEW
ISSUE	DATE	REVISION DESCRIPTION

LEGEND / NOTES

- CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEPTH OF SERVICES PRIOR TO CONSTRUCTION.
- ALL UNDERGROUND UTILITIES, INCLUDING GAS, OIL, TELUS, ELECTRICAL, MUNICIPAL WATER, ETC., AS SHOWN ON THIS PLAN, ARE BASED ON INFORMATION RECEIVED FROM THE RESPECTIVE AUTHORITIES. NO RESPONSIBILITY IS IMPLIED OR ASSUMED BY THE ENGINEER AS TO LOCATION OR OMISSIONS. THE CONTRACTOR MUST CONTACT THE VARIOUS UTILITIES FOR ON-SITE INFORMATION AS TO ACTUAL LINE LOCATIONS PRIOR TO STARTING CONSTRUCTION.
- IT IS THE LANDSCAPER'S RESPONSIBILITY TO ENSURE THAT RUNOFF FOLLOWS THE RECOMMENDED DRAINAGE PATHS AND NO STANDING WATER OCCURS NEAR THE RESIDENCE.

— x — x — x — x — EXISTING FENCELINE

(A) PLAN
FEED LOT AREAS
SCALE: 1:1800

WILDE BROTHERS
ENGINEERING LTD
PERMIT TO PRACTICE
P08438

WILDE BROS. ENGINEERING LTD.
Raymond, Alberta
VAN HUIGENBOS FARMS LTD.

FEED LOT LAYOUT
PROPOSED PLAN & DETAILS

DESIGNED:	DJM
DRAWN:	ALJ
SCALE:	AS SHOWN
DATE:	JUNE 24, 2022
CHECKED:	DJM
JOB:	9823-18
DIMENSIONS:	METERS
DRAWING No:	2

AO Comment: Updated site plan for areas contributing to run-off.

Catch Basin Dimension Calculator

For more information on runoff control catch basin design consideration including liner options, catch basin protection, etc., check out the catch basin [factsheet](#).

Name: **Van Hulgenbos Farms**
 Land Location: **SE 21-09-21 W4**

Estimating Runoff Potential

Area	Length (m)	Width (m)	Paved?	Area (m ²)
1	499	100	YES ▾	49900.00
Total Area				49900.00

Estimation of water runoff to be collected in the catch basin:

4491 m³
 158598 ft³
 987881 Imp. Gal

Calculating Catch Basin Volume:

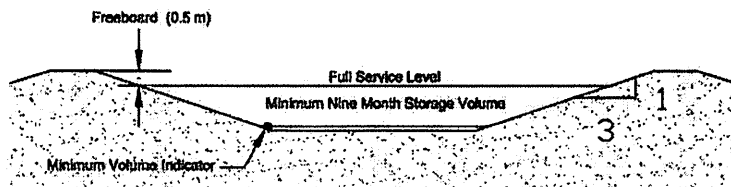
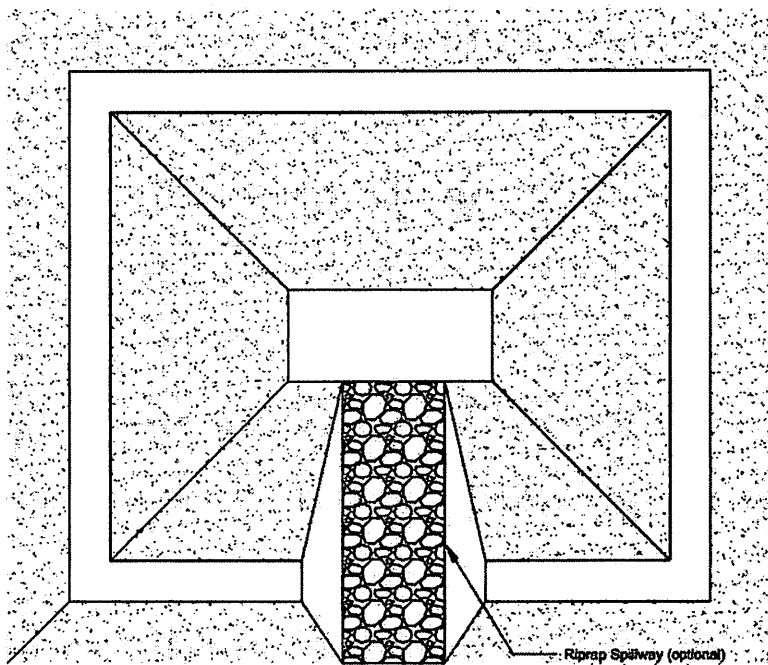
Construction Dimensions	Storage Dimensions
Length (m): 96	93.0
Width (m): 42	39.0
Depth (m): 2.5	2

Evacuation Capacity:

7680 m³
 271217 ft³
 1689365 Imp. Gal

Catch basin volume (minus freeboard):

5766 m³
 203624 ft³
 1268340 Imp. Gal



Comparing Catch Basin Volume versus Runoff Potential:

Runoff potential:	4491 m ³
Catch basin volume:	5766 m ³

The catch basin dimensions meet the design requirements in AOPA

21 January 2024

JLECS File: P24047

PO Box 96
Monarch, AB T0L1M0

Van Huigenbos Farms Ltd.

PO Box 2517

Fort Macleod, Alberta T0L 0Z0

Attention: Henry Van Huigenbos

**Re: Substantial Completion Report
New Catch Basin Construction
SE-21-009-26-W4M, near Fort Macleod, Alberta**

As requested, J Lobbezoo Engineering & Consulting Services Ltd. (JLECS) has carried out a field review in conjunction with the recent construction of two new catch basins at the above captioned location. Initial design details for the catch basins were outlined in the NRCB Authorization LA24002X, which indicated catch basin dimensions of 105 m by 40 m by 2 m deep, and 185 m by 40 m by 2 m deep. It is understood that the NRCB Permit application is being resubmitted for amendment to, in part, reflect a variation in catch basin dimensions.

The following comments and observations by JLECS relative to the construction of the catch basins are provided as follows:

1. The two catch basins (denoted in the Approval as the "North" and "South" catch basins) were both constructed at the general location identified in the application. As-built survey information provided showed that the completed south catch basin is at approximately 8 m from the west property line while the north catch basin is at approximately 8.2 m from the west property line, satisfying the minimum requirement of 6.1 m from the west property line as noted in the original Approval.
2. Based on as-built survey information provided by Wilde Bros. Engineering Ltd, the completed dimensions of the south catch basin were found to be approximately 42 m by 96 m by 2 m to 2.5 m deep, while the north catch basin was 42 m wide by 185 m long, and 2 m to 2.5 m deep. Interior side slopes of both new catch basins are inclined at approximately 3H:1V, in accordance with Section 14 of the AOPA.
3. As part of the construction of the new catch basins, sandy areas of the catch basin sideslopes had been subexcavated and replaced with low permeable compacted clay, consistent with the recommendation provided in the WPS report dated March 13, 2024. The base of both catch basins was observed to be competent low-permeable clay.
4. The groundwater table was not observed to be within 1 m of the bottom of the catch basins during the field reviews by JLECS.

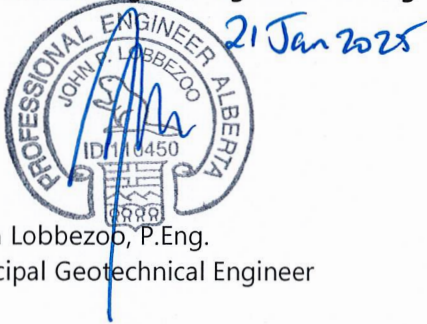
It is noted that the assessment of the naturally occurring protective layer was based on boreholes VF5-23, VF10-23, VF11-23, and VF14-23. At these locations the portion of subsurface strata screened for permeability testing was below 2.7 m to 2.9 m depth (VF5-23, VF11-23 & CF14-23), and below 4.4 m depth at VF10-23 (which was located in the footprint of the north catch basin). Accordingly, the marginally increased depth of the as-built catch basins (i.e., up to 2.5 m depth) would still be above the portion of subsurface strata assessed for the naturally occurring liner.

Based on JLECS's site observations, the completed catch basins meet the applicable requirements of the Agricultural Operations Practices Act (AOPA).

We trust this satisfies your present requirements. If you have questions or require further information or clarification, please don't hesitate to contact the undersigned.

Respectfully submitted,

J Lobbezoo Engineering & Consulting Services Ltd.



John Lobbezoo, P.Eng.
Principal Geotechnical Engineer

PERMIT TO PRACTICE	
J LOBBEZOO ENGINEERING & CONSULTING SERVICES LTD.	
RM SIGNATURE:	<u>[Signature]</u>
RM APEGA ID #:	<u>116450</u>
DATE:	<u>21 Jan 2025</u>
PERMIT NUMBER: P016456	
The Association of Professional Engineers and Geoscientists of Alberta (APEGA)	