

Regarding Approval LA19045
NE-10-008-25-W4

Groundwater Monitoring Requirements

The purpose of this statement is to revise the groundwater monitoring requirements in Approval LA19045. Operating condition number 4 of Approval LA19045 reads:

“The owner/operator shall conduct leak detection monitoring for the feedlot run off catch basin, according to a groundwater monitoring system prescribed and authorized in writing, and as amended from time to time where appropriate, by the NRCB.”

The NRCB has re-assessed the groundwater monitoring requirements, using results from an environmental risk screening conducted on June 25, 2008 and May 14, 2020 for this facility.

Based on the risk screening result, the NRCB has determined that the groundwater monitoring requirements for this facility will remain as determined in 2008 and are as follows:

Monitoring Frequency

Leak detection monitoring requirements are suspended.

Monitoring Well Test Parameters

Not applicable, as monitoring has been suspended.

Monitoring Wells to be used for Monitoring

Not applicable, as monitoring has been suspended.

As part of the leak detection program the potential risk to groundwater from the catch basin was evaluated. It was determined that a naturally occurring protective layer of sandstone/shale over 58m metres thick from the bottom of the catch basin and the top of the uppermost groundwater resource (UGR). The closest water well is over 400 metres away up gradient. Given the thickness of the protective layer below the catch basin and above the UGR and the distance to the nearest water well, the potential risk to ground water was determined to be low.

Note that the installation of new water wells in the area surrounding the CFO may impact the potential risk to groundwater quality at a facility and therefore may require monitoring requirements to be revised. To ensure that monitoring requirements are appropriate, CFO operators should inform the NRCB of any new water wells that are being developed or installed in the area surrounding their facility.

The integrity of all monitoring wells must be maintained. Any damaged or destroyed wells must be reported to the NRCB and may be required to be repaired or replaced.

These monitoring requirements become effective on the date of this letter and supersede any previously issued monitoring requirements at this facility.

June 25, 2020

(Original Signed)
Carina Weisbach
Approval Officer