



Regarding Approval LA24019
E½ 27-7-15 W4

Groundwater Monitoring Requirements

The purpose of this statement is to revise the leak detection groundwater monitoring requirements in Approval LA24019. Operating Condition #4 of Approval LA24019 reads:

“The co-permit holders shall conduct leakage detection monitoring for the earthen liquid manure storage 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 leak detection groundwater monitoring requirements, using results from an environmental risk screening conducted on September 11, 2008, for this facility.

Based on the risk screening result, the NRCB has determined that the groundwater monitoring requirements for this facility should be amended as follows:

Monitoring Frequency

Groundwater monitoring requirements are suspended

Monitoring Well Test Parameters

Not applicable, as monitoring is suspended

Monitoring Wells to be used for Monitoring

Not applicable, as monitoring is suspended

The results of the risk screening exercise indicated the earthen liquid manure storage has a low potential to impact the uppermost groundwater resource. The earthen liquid manure storage has a compacted clay liner that meets the standards required by the Agricultural Operations Practices Act. Also, there is at least a 6 metre thick protective layer of clay between the bottom of the compacted clay liner and the uppermost groundwater resource. Given the liner and the geologic materials under the facility, it is unlikely that groundwater quality would be impacted by the earthen liquid manure storage facility.

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 26, 2024

(Original signed)
Kelsey Peddle
Approval Officer