

Regarding Approval RA22005  
NW13-28-28 W4M

**Leak Detection Groundwater Monitoring Requirements for the earthen liquid manure storage (EMS)**

The purpose of this statement is to revise the leak detection groundwater monitoring requirements in Approval RA22005. Operating Condition #4 of Approval RA22005 reads:

***“The permit holder shall conduct leak detection groundwater monitoring for the EMS according to a leak detection 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 June 10, 2009 and September 29, 2015 for this facility.

The results of the risk screening indicated this facility poses a low potential to impact the uppermost groundwater resource. The EMS has a 1.0 m thick compacted clay liner constructed to AOPA standards. In addition, there is a minimum of 3 metres of clay underlying the facility between the bottom of the earthen manure storage liner and above the uppermost groundwater resource. Given the geologic materials under the facility, it is unlikely that the groundwater quality would be impacted by the facility

Based on the risk screening results, the NRCB has determined that the leak detection 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

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.

July 4, 2022

(Original signed)  
Francisco Echegaray, P.Ag.  
Approval Officer