



NRCB

Natural Resources
Conservation Board

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Regarding Approval LA21038

W½ 36-8-29 W4M

NW 25-8-29 W4M

Ground Water Monitoring Requirements

The purpose of this statement is to outline the ground water monitoring requirements in Approval LA21038. Operating Condition seven of Approval LA21038 reads:

Earthen Manure Storage (EMS) Leakage Detection System Reporting

- a. Leakage detection well results must be submitted to the NRCB in report format until such time as the NRCB adjusts the monitoring frequency, test parameters and/or report contents. All reports (comprehensive and/or indicator) must include, but will not be limited to:

- Background information – site description, soil logs, diagrams
- Water level elevations
- Elevation of liquid manure in the liquid manure storage at the time of water sampling
- Dates when the liquid manure storage was emptied
- Inspection of the surface well casing for its integrity
- Explanation of the water sampling collection technique
- Field and laboratory work
- Discussion and explanation of the results including a trend analysis
- Recommendations

- b. A Comprehensive report must be done at the time of liquid hog manure storage construction completion and 6 months after liquid hog manure storage construction completion. The Comprehensive report must include laboratory analysis of the following parameters:

- PH, Total Dissolved Solids, Electrical Conductivity
- Major Ions: Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Sulfate, Chloride
- Nitrogen Species: Nitrite and Nitrate Nitrogen, Total Kjeldahl Nitrogen
- Orthophosphate (Total Dissolved Phosphate), DOC

- c. An Indicator report must be done 12 months after construction completion of the liquid hog manure storage and every 12 months thereafter. An indicator report on the existing liquid earthen dairy manure storage must be done at the same time as an indicator report on the liquid hog manure storage. The Indicators report must include laboratory analysis of the following parameters:

- Electrical Conductivity, Chloride
- Potassium, Total Dissolved Phosphorus (Orthophosphates)
- Nitrogen Species: Nitrite and Nitrate Nitrogen, Total Kjeldahl Nitrogen

The NRCB has re-assessed the water well monitoring requirements, using results from an environmental risk screening conducted in 2009 and 2013 for this confined feeding operation's swine liquid manure storage.

Based on the 2009 and 2013 risk screening results the NRCB has determined that the ground water monitoring requirements for this facility should be remain as:

Monitoring Frequency

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

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

Date: September 10, 2021

(original signed)
Carina Weisbach
Approval Officer