



August 31, 2015

File: 76600-20 Armstrong

VIA EMAIL

H.S. Jansen and Sons Farm Ltd.
5063 Knob Hill Road
Armstrong, BC V0E 1B4

jsfl@telus.net

Dear Mr. Jansen, Director:

Re: Request to apply manure on the field under Compliance Order dated March 6, 2014

This letter is in response to the email request made August 27, 2015 to authorize the application of 6,000 gallons per acre of manure effluent to the field owned and operated by H.S. Jansen and Sons described as the "field of concern" in the Compliance Order dated March 6, 2014.

This application rate request is based on soil analysis, manure analysis, moisture monitoring and protein analysis. A review of this analysis from the field of concern was reviewed with the Ministry of Agriculture and the following interpretations were made;

- According to the data provided, it is anticipated that the alfalfa crop would extract 65 lb of nitrogen per ton, therefore, anticipating a yield of approximately 1.6 ton per acre, the crop would need approximately 100 lbs of nitrogen.
- The most recent soil analysis indicates the field currently has approximately 60 lbs of available nitrogen in the 0-12" soil profile.
- The email dated August 27, 2015 requested 6,000 gallons per acre which would add an additional 47 lbs of plant-available N per acre bringing the total plant-available N per acre to 107 in the 0-12" zone.

Based on the provided information a one time application of **6,000** gallons per acre is approved with the following provisions;

- Notify the Ministry of Environment 24 hrs prior to commencing the spread (via email)
- Ensure the application duration is consistent with the calculated flow rates and no overlapping during spreading occurs.

- Ensure soil analysis is completed immediately after manure application and forward upon receipt.
- Include protein and yield results.
- Continue judicious use of watering pre and post application, retain a record of the dates, time and duration of watering and supply moisture monitoring results upon request.

Based on the expertise of the qualified professional and assessment by Ministry staff we believe that this approved application rate will remain protective of the aquifer based on all analysis provided. Any further applications will require a separate and additional approval and will only be considered if all of the above requirements are met.

A person who fails to comply with a provision of EMA may be found guilty of an offence and could be liable, on summary conviction, to a penalty, or to be assessed an Administrative Penalty as determined by the Director. For your reference, EMA and all related and pertinent British Columbia Laws can be found at <http://www.bclaws.ca/>.

If you have any questions please contact the undersigned at Stephanie.Little@gov.bc.ca or at (250) 490-8258.

Yours truly,



Stephanie Little
Environmental Protection Officer
Compliance Section

cc:

Jason Bourgeois, Section Head, Compliance Section
Cassandra Caunce, Director, Compliance Section
Greg Tegart, Regional Manager, Ministry of Agriculture
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