

Agricultural Biosecurity Standard Operating Procedures Transmission Business Unit

Appendix I - Bipole III Transmission Project Construction Cleaning/Disinfecting Protocols for Clubroot, Livestock and Other High Risk Categories

1. PURPOSE

The following is an appendix to the Agricultural Biosecurity Standard Operating Procedure (SOP), intended for use on properties along the Bipole III Transmission Project route during construction in sections S1 and S2 where the presence of soil borne pathogens, such as clubroot, have been identified and instances where landowners have requested additional procedures based on their own biosecurity protocols or in instances where their farming activities require an additional level of protection, such as pedigree seed producers. The following protocols are to be followed to minimize and manage the associated risk of equipment working on those properties when working during non-frozen ground conditions.

The above properties would fall under the defined High Risk category in the SOP and the cleaning procedures outlined below are to be followed. The remaining elements of the SOP remain in effect - i.e. cleaning records are to be completed and submitted as per the SOP.

2. WASHING OF EQUIPMENT, VEHICLES AND FOOTWEAR

All equipment, vehicles and PPE (i.e. boots), that are working on identified High Risk properties must arrive on site clean. Upon completion of the work and prior to exiting the field, all equipment, vehicles and PPE must be washed and disinfectant used. Sediment released from the washing process will be contained to prevent transportation to another field or water course.

Soil Borne Pathogens (i.e. Clubroot, Other)

For disinfection, staff and contractors are to use Virkon 5 gram tablets, mixed in accordance with the manufacturer's specifications. Virkon is biodegradable and no further treatment of the waste solution is required. The process for cleaning equipment and disinfecting is as follows:

- a) Scrape off all heavy soil accumulations and pressure wash all surfaces that have been in contact with the soil.
- b) Virkon disinfectant is to be mixed as one tablet for every 500 ml of water.
- c) Virkon may be applied by spraying or the use of a mop, sponge or cloth to evenly apply onto the equipment surface. A minimum wetted contact time of ten minutes is required for all surfaces that have been treated.
- d) To ensure maximum effectiveness, a **new** batch of solution will be prepared each day.
- e) Any waste solution associated with disinfection is to remain on the field where it was used. It must be disposed of at least ten metres from a drain or drainage ditch.
- f) Do not re-use a solution which has been used to soak contaminated tools or equipment.

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Livestock Operations

In livestock settings, or on fields where manure has been spread, the use of Synergize is required, mixed in accordance with the manufacturer's specifications. Synergize has known aquatic environmental impacts on aquatic fish invertebrates, oysters and shrimp. The application of the product will be contained in the field away from any watercourses to mitigate environmental impacts. Disinfecting with this product shall be done on the field away from any watercourse and leftover product will be disposed of at an approved facility. The process for cleaning equipment and disinfecting is as follows:

- a) Scrape off all heavy soil accumulations and pressure wash all surfaces that have been in contact with the soil.
- b) Synergize is to be mixed with a ratio of 4ml (Synergize) to 1L (water).
- c) Synergize may be applied by spraying or the use of a mop, sponge or cloth to evenly apply onto the equipment surface. A minimum wetted contact time of ten minutes is required for all surfaces that have been treated.
- d) Do not re-use a solution which has been used to soak contaminated tools or equipment.
- e) To ensure maximum effectiveness, a **new** batch of solution will be prepared each day.
- f) Any leftover product will be disposed of at an approved facility.

3. CONTACT INFORMATION

If there are any questions or concerns from the public related to biosecurity at Manitoba Hydro, contact the Project Information Line at 1-877-343-1631 or via email at environment@hydro.mb.ca.

APPROVAL

Original signed by Shane Mailey

June 24, 2016

Shane Mailey
Vice President
Transmission

Date

NOTE: This procedure will be reviewed annually by management. As conditions change or new information becomes available, this document may be revised prior to the annual review date. Printed copies are not controlled, so check with management for the latest version.