## Schedule J: Risk Management Measures – Application of Fertilizer

Please select (by circling Yes, No, or N/A) the measures which are in place or will be implemented (and the date) in order to manage any risk from the activity.

**J1** **Certified personnel**
*Fertilizer is applied by a licensed Custom Applicator.*

| | | | | |
|---|---|---|---|---|
| Type of Measure: | Containment | | | |
| Current Practice: | Yes | No | N/A | |
| Will be Implemented: | Yes | No | N/A | Implementation Date: _____ |

**J2** **Apply according to labels**
*Fertilizer is applied in a manner that meets label directions, respecting indicated setback buffer distances from sensitive surface.*

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|---|---|---|---|---|
| Type of Measure: | Containment | | | |
| Current Practice: | Yes | No | N/A | |
| Will be Implemented: | Yes | No | N/A | Implementation Date: _____ |

**J3** **Soil sampling**
*Soil is sampled at a minimum every 5 years.*

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|---|---|---|---|---|
| Type of Measure: | Containment | | | |
| Current Practice: | Yes | No | N/A | |
| Will be Implemented: | Yes | No | N/A | Implementation Date: _____ |

**J4** **Maintenance of field drainage systems**
*Tile outlets are monitored and maintained regularly and appropriate action is taken if necessary.*

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|---|---|---|---|---|
| Type of Measure: | Containment | | | |
| Current Practice: | Yes | No | N/A | |
| Will be Implemented: | Yes | No | N/A | Implementation Date: _____ |

**J5** **Calibration of equipment**
*Sprayers are rinsed and recalibrated between different uses by the applicator.*

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|---|---|---|---|---|
| Type of Measure: | Containment | | | |
| Current Practice: | Yes | No | N/A | |
| Will be Implemented: | Yes | No | N/A | Implementation Date: _____ |

**J6** **Application rates based on recommendations**
*Agronomic rates are provided by a Certified Crop Advisor, Crop Advisor or Agronomist.*

Type of Measure: Containment
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J7** **Application rates of nitrogen and phosphorus**
*Application rates for Nitrogen and Phosphorus are based on agronomic or crop removal rates.*

Type of Measure: Containment
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J8** **Buffer strips along watercourses**
*A vegetated buffer of a minimum of 3 meters is maintained and established from the top of bank of a watercourse or surface water.*

Type of Measure: Containment
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J9** **Cover crops**
*Cover crops or over-winter are used when applying fertilizer in late summer or fall.*

Type of Measure: Containment
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J10** **Variable rate application**
*Variable Rate Spreaders (VRS) are used and programmed to apply the recommended rate of fertilizer on-the-go.*

Type of Measure: Containment
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J11** **Nutrient application outside of growing season**
*Application of nutrients outside of the growing season is avoided (the risk of nitrate leaching below the root zone is highest in late fall and early spring.)*

Type of Measure: Containment
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J12** **Split application of nutrients**

*The farm uses split fertilizer application. Split fertilizer application is the process of dividing total nitrogen application into two or more treatments to enhance nutrient efficiency, promote optimum yields and mitigate the loss of nutrients.*

Type of Measure: Containment

Current Practice: Yes No N/A

Will be Implemented: Yes No N/A Implementation Date: _____

**J13** **Apply "4R" concept for the application of nutrients**

*The "4R" concept is used. The right fertilizer source, at the right rate, at the right time, with the right placement.*

Type of Measure: Containment

Current Practice: Yes No N/A

Will be Implemented: Yes No N/A Implementation Date: _____

**J14** **Application of slow release fertilizer**

*Controlled-release or slow-release fertilizers are used to enable maximum uptake and utilization of the nutrients, and to minimize losses due to leaching.*

Type of Measure: Containment

Current Practice: Yes No N/A

Will be Implemented: Yes No N/A Implementation Date: _____

**J15** **Timing of nutrient application**

*Nutrients are not applied to a tiled field when the tiles are flowing and drainage water is being discharged from the field or when ponding occurs in the field.*

Type of Measure: Containment

Current Practice: Yes No N/A

Will be Implemented: Yes No N/A Implementation Date: _____

**J16** **Setback distance to a municipal well**

*There is no application of fertilizer within 100 meters of a municipal well.*

Type of Measure: Spatial

Current Practice: Yes No N/A

Will be Implemented: Yes No N/A Implementation Date: _____

**J17** **Vegetated buffering to a private well**

*There is a minimum 3 metre permanently vegetated area around any type of private well.*

Type of Measure: Spatial

Current Practice: Yes No N/A

Will be Implemented: Yes No N/A Implementation Date: _____

**J18** **Application setback for a private well**
*Commercial fertilizer is not applied within 3 metres of a private well.*

Type of Measure: Spatial
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J19** **Weather conditions**
*Local forecasts and weather conditions are considered when applying fertilizer, and the label is consulted for product specifications such as optimal application conditions, drying time, absorption rate and retention time.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J20** **Supervision by trained personnel**
*The filling of equipment with fertilizer is continuously supervised and done so by trained farm personnel.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J21** **Supervision of tank filling**
*There is constant supervision to reduce back siphoning or overfilling of sprayer tanks rinsing or washing spray equipment. A permanent anti-backflow, 6 inch air gap or a separate water tank will be used when filling sprayer tanks.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J22** **Rinsate disposal**
*Rinsate is applied to crops according to label directions and specifications and setbacks are respected.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J23** **Tile outlets**
*All tile outlets have posted signs indicating their locations.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J24** **Tile drain monitoring and maintenance**
*Tile outlets are monitored at the time of application and following application. Appropriate action is taken if needed.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J25** **Surface water monitoring**
*Surface water monitoring and inspections are done in intervals following the application of fertilizer. Appropriate action is taken if necessary.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J26** **Nutrient management training**
*A farm staff member has participated in formal nutrient management training facilitated by OMAFRA.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J27** **Review maps**
*The applicator has copies and has reviewed maps indicating the location of the vulnerable area (provided).*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J28** **Contingency planning**
*A written spill response plan is maintained on the farm to handle fertilizer spills within the area where the Risk Management Plan applies. The spill response plan is reviewed with the person applying fertilizer in the area.*

Type of Measure: Contingency
Current Practice: Yes No N/A
Will be Implemented: Yes No N/A Implementation Date: _____

**J29** **Record keeping**

*Records of all risk management measures are maintained on an ongoing basis, and provided for audit when requested. Sample sheet provided.*

| | | | | |
|---|---|---|---|---|
| Type of Measure: | Contingency | | | |
| Current Practice: | Yes | No | N/A | |
| Will be Implemented: | Yes | No | N/A | Implementation Date: _____ |

Please use Schedule L, *Other Risk Management Measures*, if you wish to outline alternate measures not listed on this form.