Summary of Backflow Prevention on Dairies

Inspection Procedure

- ❑ Obtain a map of the dairy and farming operation with all the well locations on it from the dairy operator. This should already be prepared and available. It is part of the Nutrient Management Plan.

- ❑ Review the Sampling and Analysis plan prepared as part of the Nutrient Management Plan (this should be completed by July 1, 2008). Review the section for irrigation water management to be confident that all irrigation water sources are identified.

For **each groundwater well or surface water source** that is pumped into a pipeline:

- ❑ Determine if the **well/water source is cross-connected** to any pipeline which may carry manure water, chemicals or other contaminants.
  - ➢ If no cross-connection is present, note so on Region 5 form. There is nothing more to do for that well.

- ❑ If it **is cross-connected and backflow could occur**, determine if there is approved backflow prevention in place.

  - ➢ **If Yes, document**:
    i. Air gap – fill out the air gap form provided to determine the required air gap and note results on Region 5 form.
    ii. Mechanical device – describe and document on Region 5 form, photo is good additional documentation. (Note: Minimum is anti-siphon, double chemigation check valve with one air/vacuum vent on upstream valve and low pressure drains, one on each valve.)

  - ➢ **If there is not backflow prevention in place**,
    i. Determine with the dairy operation what type will be installed and on
    ii. Establish timeline for installation (before July 1, 2009)
    iii. Document on Region 5 form.

Note: If mechanical backflow is in place or will be installed, ensure that the dairy operation is thoroughly familiar with the monthly inspection requirements. Provide the forms for documenting the inspections.

- ❑ Review completed form for backflow prevention and sign. This form is due July 1, 2008.