

# APHIS-VS Johne's Disease Program Issues and Forward Direction

National Johne's  
Working Group –  
Environmental  
Samples Collection  
Protocol



# Program Standard Changes

## Dairy Environmental samples

- Collect 2 environmental samples from each of the following locations on the farm (Total of 6 samples)
  - manure concentration areas (cow housing alleyways or gutters),
  - manure storage areas (lagoons, piles, pits, or manure spreader),
  - and another manure concentration area (sick cow pens or other cow alley- and travel-ways).
- Approximately 20 g of fecal material w/ bedding or soil from a minimum of 4 different sites for each sample

# Program Standard Changes

## Dairy Environmental samples- Concentration areas

- Free stall barns
  - each cow alleyway sample
  - minimum of 4 sites across each cow alleyways
  - represent most of the mature cows within the farm.
- Crossovers, areas around waterers, corners and ends of scrape lanes are good for well-mingled manure subsamples.
- Tie stall barns
  - samples should be obtained from all gutters containing mature cow manure.

# Program Standard Changes

## Dairy Environmental samples – Storage areas

- Manure storage lagoon
  - 4 locations at the perimeter of the lagoon by submerging the sampling container up to 10 cm beneath the water surface.
- Manure pile samples
  - 4 different sites up to 10 cm beneath surface.
- Manure pit samples
  - use 2 to 3 sterile 4 × 4 gauze pads tied to fishing line with fishing weight and soaked at least 10 cm below the manure surface.