**FARM: DATE:**

**THE CURRENT PROBLEM**

Morbidity and mortality: # ill: # dead: # shipped:

Has Salmonella ever been diagnosed in the past in this herd and if yes, when?

Has this herd had a BVD problem in the past and if yes, when?

Has there been any illness in nearby herds resembling this herds diarrheal problem? If yes, are these herds somehow connected, e.g., on the same stream, run-off occurs from one to the other, animals are exchanged or cohabitate pastures, etc.:

**THE INDEX (FIRST) CASE(S) START DATE:**

Check or circle signs:

 Fever Abortion

 Depression Pneumonia

 Anorexia Decreased milk production

 Diarrhea (describe):

How did you treat this case(s) and what was the outcome?

In which groupings has the illness occurred? Check group and describe number in group, date of onset in group and the number of cases/days, weeks, months:

 Fresh cows (less than 30 days fresh:

 High production cows not yet declared pregnant:

 High producing cows diagnosed pregnant:

 Medium producing cows:

 Lower producing cows:

 Early dry cows:

 Dry cows within 2-3 weeks of freshening:

 Calves:

 Heifers (list age group or location):

**Additional information:** Please provide any additional information such as time distribution of the cases; map of the farm with plot of index case(s); a time table listing the date of onset of clinical signs of the case with their farm location, etc.

Does the problem appear to sporadic (i.e., only one animal affected)?

Does the problem appear to be epidemic and perhaps point source in origin? (i.e., many animals affected over a short time period)?

Has there been secondary spread/propagative type problems (i.e., has it started in one group or location but has not appeared in a new group or location)?

**RISK FACTORS FOR THE ADULT CASES** (check or circle all that apply and elaborate where needed):

 Overcrowding within affected group

 Parturition

 Recent vaccinations

 Recent feed changes

 Poor overall nutrition

 Water or feed deprivation (e.g. due to freezing or drought)

 Temperature extremes

 Other diseases (e.g. BVD, mastitis, etc.)

 Parasite problems

 Recent travel stress

 Surgery

 Recent medications

 Exposure:

 To newly introduced animals

 To animals with diarrhea

 To areas of field run-off in exercise lots, etc.

 Other:

Additional **RISK FACTORS FOR** **CALF CASES** (check or circle all that apply and describe where needed):

 Exposure to sick cows or their manure in maternity area:

 Exposure to sick cows or their manure in calf rearing area:

 Sanitation of calf feeders and waterers:

 Sanitation of calf rearing area between calves:

 Waste milk fed:

 Calf feeds stored in pest/pet proof containers:

 Other:

**PREVENTION AND CONTROL ACTIONS THAT HAVE BEEN TRIED TO DATE:**

Briefly list steps that have been taken to date to try to correct the problem such as separation of ill cattle; ration changes; medication; etc.:

How have the cattle responded to the therapy and/or management changes?

**PUBLIC HEALTH FACTORS:**

Is anyone ill on the farm – family or employees with the symptoms of diarrhea, fever, vomiting, cramps?

Is raw milk consumed by family or employees?

Are there high-risk groups on the farm such as elderly, pregnant, infants, immunosuppressed, persons taking antibiotics, persons on antacid or ulcer therapy?

**HERD DEMOGRAPHICS:**

#milking: #dry: #heifers 1-2 yr: #heifers<1yr: #calves:

When was the last time animals were brought into the herd?

Are incoming animals preconditioned?

Are they isolated upon arrival, if so for how long?

Type of housing (freestall; tiestall; pack)?

Are the milk cows turned out? Is so, please describe:

Stall surface (concrete, dirt, stone, cow mats, sand):

Bedding (straw, sawdust, shavings, none, other):

Describe dry cow/heifer housing:

Describe exercise areas or other common area where different cattle groups may contact each other:

Where do cows freshen on the farm, describe type of area (stall, pasture, etc.) and how frequently are the freshening areas cleaned and/or disinfected?

Where do calves go after birth?

Describe calf housing (individual pens, groups, size of groups and ages, etc.):

Describe colostrum management:

Describe vaccination program for all age groups:

**OTHER ANIMALS ON THE FARM:**

List other species of animals on the farm:

Is there direct contact between these other animals and animals in the herd?

Are there obvious rodent problems?

Are there obvious bird problems?

Have there been any bird die-offs in the area?

Have you noticed any large numbers of migratory birds (sea gulls, Canada geese, song birds, etc.) on the farm fields?

**FEED AND WATER WORKSHEET:**

**WATER SOURCE ON THE FARM:**

Describe water source for the farm and if it is treated:

How often are water troughs, tanks, cups, cleaned?

Are there any surface water sources that cattle have access to (areas of run off, pooling, ponds, etc.)? If yes, describe:

Is the cow water source subject to fecal contamination by livestock, humans or other animals? Are well heads protected from runoff?

**FEED STORAGE:**

Where is the feed stored on the farm?

Is the same equipment used to move feed and manure? please describe:

Is the feed ever contaminated by run-off from manure slurries, ponds, etc.? please describe:

Describe potential fecal contamination of stored feed by other animals including birds, rodents, pets, humans or livestock manure introduced by human, equipment or animal traffic?

**FEEDING REGIMEN:**

For each of the below areas, please indicate feeds that are seasonally fed; approximate amounts and times fed; and whether they are purchased feed or feeds grown on the farm:

**MILK COWS**

Forages: Describe hay (%alfalfa, %grass, %other):

Ensiled Feed:

 Corn silage

 Haylage

 Oatlage

 H.M. corn

 Baleage

 Other

Concentrate Mixture (% protein of concentrate of TMR):

 Corn

 SBM

 Cotton seed meal

 Vitamin/mineral mix

 Salt

 Commercial protein supplement

 Wet brewers grain

 Pelleted grain

 Other

 Animal Protein Source (Fish Meal, Poultry Meal, Other):

**TOTAL MIXED RATION “RECIPE” (TMR)**

 Describe # times fed/day:

 List feeding times:

 Are feed refusals removed and bunks cleaned between feedings?

 What happens to the refusals?

 Any manure products mixed in ration (poultry, etc.):

 Medications mixed with feed or water (Calves and Adults)? Describe?

**WASTE MANAGEMENT:**

Manure disposal:

 Lagoon or pit? Describe frequency of spreading:

 Spread manure daily?

 Is manure composted?

 Where is manure spread (i.e., pasture, cropland) and what is timing?

 Can run-off from the manure affect stored feeds, water supplies, etc.?

Is silage leachate present and do cows have access to the leachate?

Sketch farm layout showing buildings, traffic patterns, feed storage areas, water sources, exercise areas, etc.