

CNMP ENGINEERING INVENTORY WORKSHEET

(FOR EXISTING AND/OR PLANNED FACILITIES) REVISED 1/2010

Landowner/Operator: _____ **Date:** _____
Farm: _____ **Interviewer:** _____
Township: _____ **County:** _____
Location: _____ **Latitude:** _____ **Longitude:** _____ (@ main entrance)

Production Facility Site Sketch/Data

Use this sheet to inventory resources needing protection, potential contaminant sources, and pathways for contaminants to reach resources. Bio-security procedures must be followed upon entry to the farm.

Show, if applicable:

- barns
- animal lots
- cattle lanes

- manure storage

- reception tanks
- manure pipelines
- manure scrapeways
- manure stacking pads

- milking center and wastewater discharge

- wells

- silage bunkers, bags
- leachate collection
- silos

- streams (perennial and intermittent)
- lakes, ponds
- wetlands
- surface water runoff (path, flow direction, emergency containment)
- clean water mgmt.

- practices (exist/planned)

- karst features

- fuel tank locations
- roads, lanes, fences
- property lines
- utilities,
- fertilizer storage
- pesticide (store, mix, load)
- mortality storage sites

- planned facilities

North

(Provide additional sketches when necessary)

Data for Estimating Manure Production

Animal Type (management group)	Number (total head)	Ave. Weight (per head)	Bedding Type	Bedding Vol. (per day)	Confinement Days

Dairy Rolling Herd Average: _____ lbs/cow/year.

Concentrated Livestock Areas

Note: Test pits or soil borings may be needed to characterize the subsurface features (soils, saturation, and bedrock)

Feedlot ID	Animal		Lot Size (sq. feet)	Tributary Areas (type and size)	Cleaning Interval	Lot Surface Type(s)
	Type	No.				

Wastewater Production Data/Estimates

Total MEASURED wastewater productions (if available): _____ gal/day

OR Estimate as follows:

Parlor/Milkhouse Water:

Cleaning parlor floors, cows, milkers _____ gal/day Plate cooler water _____ gal/day
 Cleaning bulk tank and pipelines _____ gal/day

Holding Area Cleaning:

Flushed holding area _____ gal/day Non-flushed holding area _____ gal/day

Sprinklers/Misters:

Holding area sprinkler use _____ days/year Barn sprinkler use _____ days/year
 Holding area sprinkler rate _____ gal/day Barn sprinkler rate _____ gal/day

Current Disposal Methods: _____

Potential Resource Concerns: _____

Transfer System

Note: Test pits or soil borings may be needed to characterize the subsurface features (soils, saturation, and bedrock)

Reception Tank/ Transfer ID	Size/Volume of Reception Tank	Type of Transfer Pump or Gravity	Pipeline/ Flume Type and Size	Storage ID	Meets 634 ¹ (Y / N / ?)	Comment

¹ Was the manure transfer system designed and constructed in accordance with NRCS standards in place at time of construction? Yes No Unknown)

Potential Resource Concerns: _____

Storage Facilities

Note: Test pits or soil borings may be needed to characterize the subsurface features (soils, saturation, and bedrock)

Storage ID	Size/Volume of Storage Unit	Type of Liner	Condition and Thickness of Liner	Transfer ID	Meets 313 ¹ (Y / N / ?)	Length (days)

¹ Was the manure storage system designed and constructed in accordance with NRCS standards in place at time of construction? Yes No Unknown)

Identify any safety issues associated with transfer or storage (examples: confined spaces, safety fences, warning signs, push off ramps).

Identify any evidence of manure storage facility overflowing.

Potential Resource Concerns: _____

Operation and Maintenance / Farmstead Safety and Security

If available, obtain copy of existing operation and maintenance plan for collection, storage, treatment, and transfer of manure and wastewater; including associated equipment, facilities, and structures. Also, obtain copies of Bio-security Plan, normal and catastrophic mortality plan, and procedures for handling Veterinary wastes. Chemical Handling and Spillage Response plan only for sites applying for NPDES permits.

Stacking Areas

Note: Test pits or soil borings may be needed to characterize the subsurface features (soils, saturation, and bedrock)

Stacking Area ID	Size/Volume of Stack	Manure Consistency (solid, semi-solid)	Soil Type	D.S. Slope	Distance to Concentrated Flow

Resource Concerns: _____

Silage Leachate

Silage storage: Silos _____ Bags _____ Bunkers _____

Types of Silage: _____

Evidence of Leachate: _____

Use of covers: _____

Evidence of Ground Water Problems _____

Evidence of Stormwater Runoff from Silage Areas _____

Resource Concerns: _____

Wells

Well ID	Depth		Type of Construction	Condition	Test Results (Nitrate/Bacteria)
	Well	Water			

Document any observed risks such as proximity to contamination sources, surface runoff near well, well condition or unused wells that are not properly abandoned.

Surface Water Runoff

Identify any problems related to surface water runoff (erosion, ponding, flooding, etc.).

Identify areas where livestock have unlimited access to surface water and where streambanks are not sod covered.

Air Quality

(identify resource concerns, however the landowner is not required to treat the air quality concerns)

Are any of the following a concern at the facility itself, or to nearby neighbors? If so, describe the issues in terms of timing, extent, etc.

- **Dust:**
- **Gaseous Emissions:**
- **Odor:**
- **Other Potential Resource Concerns:**

Alternative Manure and Wastewater Utilization Options and Future Expansion

Landowners interest or need for non-traditional collection, transfer, storage, and utilization of manure.

Are there limitations to the existing site that could limit future expansion?

Other Potential Resource Concerns:

Additional Comments