STATEMENT OF WORK (SOW)
Ohio CNMP

These deliverables apply to the Ohio Comprehensive Nutrient Management Plan (CNMP), the Conservation Activity Plan (CAP) 102 CNMP, and CAP 104 as a component of a CNMP. CNMPs are conservation plans unique to livestock operations. These plans document practices and strategies adopted by livestock operations to address natural resource concerns related to the collection, storage and land application of livestock manure. For other planned practice deliverables included in the CNMP please refer to those specific Statements of Work.

DESIGN

Deliverables:

NOTE: A CNMP is to address all included land units on which fertilizer/manure will be applied and to the headquarters were the livestock are confined. Nutrient application cannot exceed the recommendations contained in practice standard (590) Nutrient Management.

Items to be delivered to the NRCS District Conservationist include:

1) The Ohio CNMP and the PAD document individualized for the operation with signatures.
2) An electronic copy of the Ohio CNMP Document and PAD (with quality maps and aerial photos)
3) An electronic copy of the Ohio CNMP Producer Activity Plan
4) An electronic copy of the MMP data file
5) An electronic copy of the AWM data file, AWM to MMP report and the RUSLE2 database (.gdb) used in soil loss calculations.

Section 1. Background and Site Information

1.1 General Description of Operation *(required for 102 and 104 as a component of a CNMP)*

- Describe the type and number of livestock, the type of existing manure storage, the resource concerns at the headquarters, the resource concerns in any field to which manure is applied, the need for additional storage (if needed). A description of production practices used on the land application fields is also needed; crop rotation, tillage used, expected yields, description of grazing management and other normal production practices that has an influence of this CNMP. For CAP 104 as a component of a CNMP the description can be limited to the land application field information.

1.2 Sampling, Calibration and Other Statements *(required for 102 and 104 as a component of a CNMP)*

This section should address…

- Soil testing method/frequency
- Manure testing method/frequency
- Equipment calibration method and frequency

1.3 Resource related concerns – List and briefly describe: *(required for 102 and 104 as a component of a CNMP)*

- The resource concerns identified and describe about soil (erosion, soil quality, nutrient balance), water (quality and quantity), air (odor control, chemical drift), plants, and animals for both the livestock confinement area and the land application fields. For CAP 104 as a component of a CNMP the resource concerns can be limited to the land application field information.

Section 2. Manure and Wastewater Handling and Storage

2.1 Map(s) of Production Area. *(required for 102 CNMPs only)*

The maps and/or aerial photos show existing and planned storage(s) and wastewater handling practices. All building labeled as to their function.

2.2 Production Area Conservation Practices *(required for 102 CNMPs only)*

The existing and planned waste storage facilities as well as wastewater handling practices identified with brief narratives and implementation details are included.

2.3 Manure Storage Inventory *(required for 102 and 104 as a component of a CNMP)*

This section list all existing and planned manure storage structures describing the type of storage and storage capacity of each.

2.4 Animal Inventory *(required for 102 and 104 as a component of a CNMP)*

The animal inventory list the animal types, phases of production, number of animals, average weight, length of confinement for each type, the percent of manure collected, and in which storage structure the manure is stored.

2.6 **Planned Manure Exports off the Farm** *(required for 102 and 104 as a component of a CNMP)*

This section list the amount of manure that is being planned for export (if applicable).

2.7 Planned Manure Imports onto the Farm *(required for 102 and 104 as a component of a CNMP)*

This section list the amount of manure that is being planned for import (if applicable).

2.8 Planned Internal Transfer of Manure *(required for 102 and 104 as a component of a CNMP)*

This section list the amount of manure that is being planned for internal transfer (if applicable).

Section 3. Farmstead Safety and Security

3.1 Emergency Response Plan *(required for 102 CNMPs only)*

The emergency response plan complete and contain all the phone numbers and contacts needed in case of a spill or accident?

3.2 Biosecurity Measures *(required for 102 CNMPs only)*

This section details the biosecurity measures desired by the producer and the procedures adequate to reduce the risk of disease.

3.3 Normal and Catastrophic Mortality Management *(required for 102 CNMPs only)*

This section should describe how normal livestock mortality is routinely handled and describe measures that will be taken in the case of a catastrophic mortality.

Section 4. Land Treatment

4.1 Map(s) of Fields and Conservation Practices *(required for 102 and 104 as a component of a CNMP)*

This section includes maps with a legend, map scale, and provides applicable tract and field numbers. The maps are legible and of good quality and include all fields that will receive manure. Conservation Plan Map with fields delineated, acres, land use and practices. Setback maps delineating property boundaries, buffers from streams, ponds, wells, waterways, tile inlets, residential areas, environmentally sensitive areas listing acres or distances in each setback and spreadable acres in the field.

4.2 Land Treatment Conservation Practices *(required for 102 and 104 as a component of a CNMP)*

The existing and planned land treatment practices identified by NRCS practice headings with brief narratives for all land that will be receiving manure are included.

Section 5. Soil and Risk Assessment Analysis

5.1 Soil Information *(required for 102 and 104 as a component of a CNMP)*

This section includes soil maps, map unit description, and a Soils Inventory.

5.3 **Nitrogen and Phosphorus Risk Analysis** *(required for 102 and 104 as a component of a CNMP)*

This section includes risk assessments for potential nitrogen and phosphorus transport from fields documented on a field-by-field basis.

5.5 **Most Limiting Manure Application Rates/ Available Water Holding Capacity** *(required for 102 and 104 as a component of a CNMP)*

This section contains tables showing most limiting manure application rate and water holding capacity by soil texture.

5.6 Special Manure Application Criteria *(required for 102 and 104 as a component of a CNMP)*
This section contains list for manure applications on steep fields, manure applications of fields subject to flooding, liquid manure applications on tile drained fields and minimum ground cover for manure applications.

Section 6 Nutrient Management

6.2 Manure Application Setback Distances *(required for 102 and 104 as a component of a CNMP)*
Minimum setbacks distances from sensitive areas are listed

6.3 Soil Test Data *(required for 102 and 104 as a component of a CNMP)*
Soil test data listed for each field receiving manure.

6.4 Manure Nutrient Analysis *(required for 102 and 104 as a component of a CNMP)*
Estimated "book values" or current test Manure Nutrient Analysis per storage(s) area documented.

6.5 Planned Crops and Fertilizer Recommendations *(required for 102 and 104 as a component of a CNMP)*
Nutrient recommendation that meet Tri-State Fertility Guide Recommendations and nitrogen recommendations based on the Economic Threshold model developed by OSU or Purdue are listed.

6.6 Manure Application Planning Calendar *(required for 102 and 104 as a component of a CNMP)*
Manure Application Planning Calendar completed for each year and each field receiving manure.

6.7 Planned Nutrient Applications (Manure-spreadable Area) *(required for 102 and 104 as a component of a CNMP)*
This section contains an application plan for both commercial fertilizer and manure application by field.

6.8 Field Nutrient Balance (Manure-spreadable Area) *(required for 102 and 104 as a component of a CNMP)*
This section contains a nutrient balance for each field each year of the plan.

6.9 Manure Inventory Annual Summary *(required for 102 and 104 as a component of a CNMP)*
This section contains a table listing all the facilities or structures where manure is stored and a summary of the volume of manure at the beginning CNMP implementation period as well at the end in each storage facility.

6.10 Fertilizer Material Annual Summary *(required for 102 and 104 as a component of a CNMP)*
Annual summary of commercial fertilizer is used (type and quantity).

6.11 Whole-Farm Nutrient Balance (Manure-spreadable Area) *(required for 102 and 104 as a component of a CNMP)*
This section contains a table summarizing the nutrients generated from manure on hand, manure generated, imported, and exported from the farm operation.

Section 7 Feed Management
Feed management activities may be used to reduce the nutrient content of manure, which may result in less land being required to effectively utilize the manure.

Section 8 Other Utilization Options
Include only if utilization options other than land application are planned.

Section 9 Recordkeeping Forms *(required for 102 and 104 as a component of a CNMP)*
See the Producer Activity Document in MMP

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INSTALLATION

Deliverables

1. Pre-implementation conference with client to review the plan
2. Location of and communication of setback requirements for wetlands, water bodies, streams, and other nutrient-sensitive areas.
3. Installation guidance as needed.
4. Facilitate and implement required design modifications with client and original designer.
5. Advise client/NRCS on compliance issues with all federal, state, tribal, and local laws, regulations and NRCS policies during installation.
6. Certification that the application process and materials meets design and permit requirements.

CHECKOUT

Deliverables

1. Records of implementation.
   a. Extent of practice units applied, acres.
2. Guidance for record keeping (implementation records maintained by the producer)
   a. Records of crops produced, planting and harvest dates, yields, residue management.
   b. Records of recurring soil tests, and other tests (e.g. manure, plant tissue, water) used to implement the plan.
   c. Records of recommended nutrient application rates.
   d. Records of nutrient applications including quantities, analyses, and sources of nutrients applied; dates and methods of application.
   e. Records of recurring review of the plan including the dates or review, individual performing the review, and recommendations that resulted from the review.
3. Certification that the application meets NRCS standards and specifications and is in compliance with permits.
4. Progress reporting.

REFERENCES

- NRCS National Planning Procedures Handbook (CNMP Technical Guidance) http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/lpType,toc;H_180_600_E_5.htm#CURR
- NRCS Field Office Technical Guide http://www.oh.nrcs.usda.gov/technical/ohio_eFOTG.html
- NRCS National Engineering Manual http://www.oh.nrcs.usda.gov/intranet/directives.html#NEM
- NRCS National Agronomy Manual http://policy.nrcs.usda.gov/scripts/lpsiis.dll/M/M_190_NAM.htm
- NRCS Environmental Compliance Handbook http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/lpType,toc;H_190_610_Content.htm#CURR
- NRCS Cultural Resources Handbook http://policy.nrcs.usda.gov/scripts/lpsiis.dll/H/lpType,toc;H_190.htm#CURR
- Ohio NRCS Conservation Planning Policy 180- Conservation Planning and Application http://www.oh.nrcs.usda.gov/intranet/GenManual/180_gm_cons_plan_applic.html
- Purdue Manure Management Planner (current version) http://www.agry.purdue.edu/mmp/