STATEMENT OF WORK

Nutrient Management Plan

Ohio

PLANNING

NOTE: A Nutrient Management Plan (NMP) is to address all land units that the owner and/or operator owns or has decision-making authority over and on which fertilizer will be applied. Nutrient application cannot exceed the recommendations contained in practice standard (590) Nutrient Management and the Tri-State Fertility Guide. If manure is to be applied, a Comprehensive Nutrient Management Plan (CNMP) should be developed rather than a NMP.

Deliverables:

The Ohio NMP format and the Ohio NMP Producer Activity Plan generated from the Purdue Manure Management Planner (MMP) are to be used.

Items to be delivered to the NRCS District Conservationist include:

1) The Ohio NMP individualized document with signatures.
2) An electronic copy of the Ohio NMP Document (with maps)
3) An electronic copy of the Ohio NMP Producer Activity Plan

An electronic copy of the MMP data file

Note: The section numbering below is consistent with a Comprehensive Nutrient Management Plan (CNMP) document. Omitted sections do not apply to a Nutrient Management Plan (NMP)

Section 1. Background and Site Information

1.1 General Description of Operation

- List the name, address, phone number of the owner or operator.
- In a concise narrative, describe the operation, the goals and objectives of the producer, the resource concerns in any field to be planned.

1.2 Sampling, Calibration and Other Statements

- Develop a brief narrative describing soil test sampling procedure and frequency.
- Develop a brief narrative describing equipment calibration methods.

1.3 Resource related concerns – List and briefly describe:

- Soil erosion, nutrient, quality, compaction concerns
- Water quantity and quality concerns
- Air, odor, drift concerns
- Plants nutrient, health concerns

Section 3: Farmstead Safety and Security

3.1 Emergency Response Plan

- Listing appropriate local contacts with phone numbers in case of a spill or accident.

3.4 Chemical Handling

- Develop a brief narrative that describes any chemical storage and handling

NOTE: This section is required for regulatory permitted facilities. It is optional for non-permitted facilities.

Section 4: Land Treatment

4.1 Map(s) of Fields and Conservation Practices

- Conservation Plan (field) maps or aerial photos of all the fields which will receive fertilizer. Maps should indicate roads, streams, marked setbacks, buffers, waterways, and environmentally sensitive areas, such as sinkholes, wells, gullies, tile inlets, etc. Each field should be identified using field number, land use designation, acres in size and spreadable acres in the field. Each map should include a legend, map scale, and tract numbers.

4.2 Land Treatment Conservation Practices

- Identify and list any existing and/or planned land treatment practices for all land receiving fertilizer. Practices should address the resource concerns identified in Section1.3 and be labeled using NRCS Conservation Practices with brief narratives. List the quantities of each practice and develop a schedule of practice installation.
- At a minimum, this section will contain (328) Conservation Crop Rotation, (329/345/346) Residue and Tillage Management and (590) Nutrient Management.
- **NOTE:** If the NMP developer is not a Certified Conservation Planner, a conservation plan developed by a certified planner in Customer Service Toolkit must be inserted here or must be approved by a Certified Conservation Planner.

Section 5: Soil and Risk Assessment Analysis

5.1 Soil Information

- Include soils maps with legends, map unit descriptions, and a soils Inventory.

5.2 Predicted Soil Erosion

- Develop soil loss calculations using RUSLE2 for each field receiving fertilizer. List predominate soil types and average slopes. The RUSLE2 tool contained in the Manure Management Planner is suitable.

5.3 Nitrogen and Phosphorus Risk Assessment Procedure

- Document potential transport risk of nitrogen or phosphorus from fields on a field-by-field basis.

5.4 Additional Field Data Required by Assessment Procedure

- Identify distances to water by field, listing the type of water (pond, creek) and identify fields containing tile drainage.

5.6 Special Fertilizer Application Criteria

- List criteria for winter fertilizer application, fertilizer application of fields subject to flooding, liquid fertilizer application on tile drained fields, and minimum ground cover for fertilizer applications.

Section 6: Nutrient Management

6.1 Field Information

- List field acres, spreadable acres (if less than field acres), FSA tract number, predominate soil type and percent slope for each field receiving fertilizer.

6.3 Soil Test Data

- List soil test values for all fields receiving fertilizer. Data should contain at a minimum, percent organic matter, soil test phosphorus, potassium, magnesium, and calcium as well as pH, and CEC. The values should clearly state whether they are in parts per million or pounds per acre. It should also be clearly stated what test was used to develop the values (such as Bray-Kurts P1, or Mehlich 3 ICP) and what testing lab was used

6.5 Planned Crops and Fertilizer Recommendations

- Identify each crop in the rotation by field by year listing the nutrients to be supplied by commercial fertilizer.

6.7 Planned Nutrient Applications

- List the field number, the month of application, the target crop, and the fertilizer source, the fertilizer application equipment to be used, the application rate, the spreadable acres to be covered, the estimated nitrogen, phosphorus, and potassium needed for each field.

6.8 Field Nutrient Balance

- List by field, the nutrients applied, the nutrients removed by the crop, and the net balance of nutrients.

6.10 Fertilizer Material Annual Summary

- List the amount and type of fertilizer used to balance nutrients during the NMP implementation period.

6.11 Whole Farm Nutrient Balance

- Summarize all the fertilizer nutrients (N-P-K) applied throughout the life of the NMP.

Section 9: Record Keeping

- Provide the producer forms generated from the MMP “Producer Activity Plan” to record application data.

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Ohio

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/