

STATEMENT OF WORK
Nutrient Management (590)
Wyoming

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work.

DESIGN

Deliverables:

1. Design documents that demonstrate criteria in NRCS practice standard have been met and are compatible with planned and applied practices.
 - a. Practice purpose(s) as identified in the conservation plan.
 - b. List of required permits, if required, to be obtained by the client.
 - c. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to:
 - i. Results of applicable sampling, analyses, and tests provided by the client.
 - ii. Realistic yield goals for the crop(s) to receive nutrient applications.
 - iii. Planned nutrient and soil amendment application rates, methods, and timing of application in balance with the nutrient budget.
 - iv. Site risk assessment for phosphorus transport when manure or other organic materials are a source of nutrients. See Agronomy Note 15, Phosphorus Index.
 - v. Other requirements applicable to manure or organic materials, non-point source pollution, soil condition, and air quality.
2. Written plans and specifications shall be provided to the client that adequately describes the requirements to implement the practice and obtain necessary permits. Plans & specifications include:
 - a. Maps that identify areas on which nutrients will be applied.
 - b. Location of setbacks or other sensitive areas with nutrient application restrictions.
 - c. Guidance for nutrient applications on setbacks or other sensitive areas.
 - d. A nutrient budget for nitrogen, phosphorus, and potassium that compares recommended to planned nutrient application rates,
 - e. Guidance for operation and maintenance plan.
 - f. Other requirements listed in the conservation practice standard Nutrient Management (Code 590).
3. Certification that the design meets practice standard criteria and complies with applicable laws and regulations for Agronomy Technical Notice 19, Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists and Nutrient Management Design WY-ECS-44, Solid Waste Utilization WY-ECS-45A, Liquid Waste Utilization WY-ECS-45B, Agronomy Technical Notice 15, Phosphorus Index if solid and/or liquid organic wastes are applied, Nutrient Management Planning Worksheet WY-ECS-58, Conservation Crop Rotation Specification Worksheet WY-ECS-62, Cropland/Hayland Recordkeeping WY-ECS-63, Conservation Crop Rotation Yield Records WY-ECS-64, and NRCS WEQ calculation for wind erosion and NRCS RUSLE2 calculations for water erosion and soil quality.
4. Design modifications during installation as required.

INSTALLATION

Deliverables

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

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7. Certification that the application process and materials meets design and permit regulations for Agronomy Technical Notice 19, Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists and Nutrient Management Design WY-ECS-44, Solid Waste Utilization WY-ECS-45A, Liquid Waste Utilization WY-ECS-45B, Agronomy Technical Notice 15, Phosphorus Index if solid and/or liquid organic wastes are applied, Nutrient Management Planning Worksheet WY-ECS-58, Conservation Crop Rotation Specification Worksheet WY-ECS-62, Cropland/Hayland Recordkeeping WY-ECS-63, Conservation Crop Rotation Yield Records WY-ECS-64, and NRCS WEQ calculation for wind erosion and NRCS RUSLE2 calculations for water erosion and soil quality.

CHECKOUT

Deliverables

1. Records of implementation.
 - a. Extent of practice units applied, acres.
2. Guidance for record keeping (implementation records maintained by the producer or agent)
 - 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 regulations for Agronomy Technical Notice 19, Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists and Nutrient Management Design WY-ECS-44, Solid Waste Utilization WY-ECS-45A, Liquid Waste Utilization WY-ECS-45B, Agronomy Technical Notice 15, Phosphorus Index if solid and/or liquid organic wastes are applied, Nutrient Management Planning Worksheet WY-ECS-58, Conservation Crop Rotation Specification Worksheet WY-ECS-62, Cropland/Hayland Recordkeeping WY-ECS-63, Conservation Crop Rotation Yield Records WY-ECS-64, and NRCS WEQ calculation for wind erosion and NRCS RUSLE2 calculations for water erosion and soil quality.
4. Progress reporting.

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV:
 - Conservation Practice Standard Nutrient Management-590, Nutrient Management Work Sheet WY-ECS-44 and Nutrient Management Design and Nutrient Management Planning Work Sheet WY-ECS-58
 - Conservation Practice Standard Waste Utilization-633, Solid Waste Utilization Work Sheet WY-ECS-45a, Liquid Waste Utilization Work Sheet WY-ECS-45b, and AFO/CAFO Inventory Data Planning Work Sheet WY-ECS-60
 - Conservation Practice Standard Irrigation Water Management-449 and IWM Work Sheet WY-ECS-73
 - Conservation Practice Standard Conservation Cover-328 and Conservation Cover Work Sheets WY-62, 63, and 64
- NRCS Field Office Technical Guide (eFOTG), Section I, Table of Contents:
 - Agronomy Technical Notice 3-Nitrogen Fixation and Legume Inoculation
 - Agronomy Technical Notice 10-University of Wyoming Guide to Fertilizer Recommendations B-1045
 - Agronomy Technical Notice 11.1-Nutrient Management Practice Narrative
 - Agronomy Technical Notice 11.2-Nutrient Management Job Sheet
 - Agronomy Technical Notice 11.3-Atmospheric Nitrogen Deposition Summary
 - Agronomy Technical Notice 11.4-National Atmospheric Nitrogen Deposition Site Map Links
 - Agronomy Technical Notice 11.5-Atmospheric Nitrogen Deposition Website
 - Agronomy Technical Notice 11.6-Nutrient Management Design Form WY- ECS-44
 - Agronomy Technical Notice 11.7-Nutrient Management Design Form Instructions WY-ECS-44
 - Agronomy Technical Notice 12.1-Waste Utilization Plan Excel Worksheet
 - Agronomy Technical Notice 12.2-Instructions for the WY-ECS-45a Waste Utilization Excel Worksheet

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- Agronomy Technical Notice 12.3-Solid Waste Utilization Plan- PDF Format
- Agronomy Technical Notice 12.4-Solid Waste Form for Animal Outputs – PDF Form
- Agronomy Technical Notice 12.5-Crop Nutrient Requirements
- Agronomy Technical Notice 12.6-Liquid Waste Utilization WY-ECS-45b
- Agronomy Technical Notice 12.7-Liquid Waste Utilization WY-ECS-45b Instructions
- Agronomy Technical Notice 12.8-Liquid Waste Utilization for Rangeland, Hayland & Pastureland
- Agronomy Technical Notice 13-Soil Testing and Fall/Snow Manure Application Guidelines
- Agronomy Technical Notice 14-Waste Utilization Application Guidelines
- Agronomy Technical Notice 15-Phosphorus Index
- Agronomy Technical Notice 19-Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists
- Agronomy Technical Notice 20-Liquid Waste Utilization Application Guidelines/Sizing Vegetated Areas
- Agronomy Technical Notice 24-Ag Waste Available Water Holding Capacity Example
- NRCS RUSLE2 program for predicting soil loss by water erosion and calculating soil quality index (SCI), WY-ECS-40B
- NRCS WEQ program for predicting soil loss by wind erosion, WY-ECS-40A
- NRCS General Manual Title 450, Part 401.03 (Technical Guides, Policy and Responsibilities) and Title 190, Part 402 (Ecological Sciences, Nutrient Management, Policy)
- NRCS National Planning Procedures Handbook (NPPH), CNMP Technical Guidance Document
- NRCS National Agronomy Manual (NAM) Section 503
- NRCS Agricultural Waste Management Field Handbook, Chapter 4 – Agricultural Waste Characteristics
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook