

STATEMENT OF WORK Nutrient Management (590) Washington

These deliverables apply to this individual practice. For other planned practice deliverables refer to those specific Statements of Work. Planners shall follow and document all the requirements as outlined in the practice standard. The planner shall also follow the specification requirements for the practice. Documentation and certification requirements for the practice are outlined in the WANRCS General Manual-Title 450, Part 407, Subpart A, B, C Documentation, Certification, and Spot Checking for Ecological Science Practices.

DESIGN

Deliverables:

1. The conservation practice narrative in the Conservation Plan must include:
 - a. Purpose(s) for applying this practice.
 - b. Producer objectives, CMU(s) background and site information.
 - c. Planned crops and their yields.
 - d. Planned nutrient application rate and method of application by crop.
 - e. Nitrogen Leaching Index and limiting factors to be considered to minimize potential for nutrients in surface and ground water.
 - f. Phosphorus Index (PI tool) indicates the nutrient application is N based or P based and other considerations to minimize nutrient loss to surface and ground water.
 - g. Organic nutrient application is identified by type, if used.
 - h. Lifespan of this practice (1 year).
 - i. Potential Sensitive areas
2. Appropriate map and reports included should be:
 - a. Maps identifying areas with nutrient applications and sensitive areas.
 - b. Topography Maps
 - c. Soils Map w/ reports:
 - i. Map Unit Descriptions
 - ii. Physical Soil Properties
 - iii. Water Features
 - iv. Manure and Food Processing Waste (when applicable)
3. Soil erosion risk assessment tools (using current erosion prediction technologies for water and wind erosion) to assess the risk of nutrient and soil loss. Identified resource concerns must be addressed to meet current planning criteria (quality criteria).
4. Design documents that demonstrate criteria in NRCS practice standard have been met and are compatible with planned and applied practices.
 - a. List of required permits, if required, to be obtained by the client.
 - b. Practice standard criteria-related computations and analyses to develop plans and specifications including but not limited to:
 - i. Planned nutrient and soil amendment application rates, methods, and timing of application in balance with the Washington Nutrient Budget Specification.
 - ii. Results of applicable sampling, analyses, and tests provided by the client.
 - iii. Realistic yield goals for the crop(s) to receive nutrient applications.
 - iv. Site risk assessment for phosphorus transport and nitrogen leaching.
 - v. Other requirements applicable to manure or organic materials, non-point source pollution, soil condition, soil erosion, and air quality.
5. Where applicable, 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. The Washington Nutrient Budget Specification Worksheet for nitrogen, phosphorus, and potassium that compares planned nutrient application rates to expected crop uptake,
 - b. Maps that identify areas on which nutrients will be applied.
 - c. Location of setbacks or other sensitive areas with nutrient application restrictions.
 - d. Identified sensitive areas and mitigations strategies and discussed alternatives and any guidance for nutrient applications on setbacks.
 - e. Guidance for operation and maintenance plan.

- f. Other requirements listed in the conservation practice standard Nutrient Management (Code 590).
6. If applicable engineering components of the plans, drawings and specifications are prepared, signed, and sealed by a non-NRCS Professional Civil, or Environmental Engineer licensed in the State of Washington (or in the case of the Tribal jurisdiction, licensed in the State in which the Tribal jurisdiction is located), they shall require a functional review completed by NRCS engineering staff. If plans, drawings, and specifications are submitted and not prepared, signed, and sealed as discussed above, they shall require a full design review and approval by NRCS engineering staff.
 - a. Certification that the design meets practice standard criteria and complies with applicable laws and regulations.
 - b. Design modifications during installation as required.

INSTALLATION

Deliverables

1. Initial conference with client to explain the Nutrient Management design and record keeping requirements.
2. Application guidance to implement the Nutrient Management Practice, as needed.
3. Design modifications as required.
5. Advise client 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. For Engineering designs prepared by a non-NRCS A&E, the licensed professional responsible for the design shall stamp and sign the certification statement.

CHECKOUT

Deliverables

1. Practice certification must be completed by person with approval authority.
2. The practice application is to be checked against the specifications to insure a satisfactory job. Check notes or observations become part of the supporting data along with previous planning documenting records.
3. Minimum check out documentations include
 - a. The date the check out field visit was done.
 - b. Crop(s) grown on each field being checked.
 - c. Records of soil, plant tissue, and other tests(e.g. manure, water)
 - d. Records of nutrient applications (quantities, analyses, and source; dates and method of application).
 - e. Extent of practice units applied.
 - f. Evaluation and review of effectiveness of completed plan.
 - g. Signed specification that the practice does or does not meet NRCS standards and specifications.
4. If applicable, "As Built" drawings for all newly installed Engineering Practices associated with this Practice. For designs prepared by a non-NRCS A&E, the licensed professional responsible for the design shall also certify the As-Built drawings
5. Practice certification and progress reporting in ProTracts or Customer Service Toolkit

REFERENCES

- NRCS Field Office Technical Guide (eFOTG), Section IV, Conservation Practice Standard – Nutrient Management, 590
- 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