

**STATEMENT OF WORK**  
**Waste Utilization (633)**  
**Wyoming**

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

## **DESIGN**

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### **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 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. Planned waste utilization
    - iii. Additional requirements applicable to manure or organic materials, non-point source pollution, soil condition, and air quality
2. Written plans and specifications including sketches and drawings shall be provided to the client that adequately describes the requirements to implement the practice and obtain necessary permits.
3. Operation and maintenance plan
4. Certification that the design meets practice standard criteria and comply with applicable laws and regulations, Agronomy Technical Notice 19, Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists and Nutrient Management Design WY-ECS-44, AFO/CAFO Inventory Data Planning Worksheet WY-ECS-60, 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, NRCS WEQ calculation for wind erosion, and NRCS RUSLE2 calculations for water erosion and soil quality.
5. Design modifications during implementation as required

## **INSTALLATION**

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### **Deliverables**

1. Pre-application conference with client
2. Verification that client has obtained required permits
3. Staking and layout according to plans and specifications including applicable layout notes
4. Application 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
7. Certification that the application process and materials meets design and permit requirements, Agronomy Technical Notice 19, Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists and Nutrient Management Design WY-ECS-44, AFO/CAFO Inventory Data Planning Worksheet WY-ECS-60, 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, NRCS WEQ calculation for wind erosion, and NRCS RUSLE2 calculations for water erosion and soil quality.

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**CHECK OUT**

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**Deliverables**

1. Records of application
  - a. Extent and location of practice units applied
  - b. Actual materials used
2. Certification that the application meets NRCS standards and specifications and is in compliance with permits, Agronomy Technical Notice 19, Nutrient Management and Comprehensive Nutrient Management Plan Components/Checklists and Nutrient Management Design WY-ECS-44, AFO/CAFO Inventory Data Planning Worksheet WY-ECS-60, 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, NRCS WEQ calculation for wind erosion, and NRCS RUSLE2 calculations for water erosion and soil quality.
3. Progress reporting

**REFERENCES**

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- NRCS Field Office Technical Guide (eFOTG), Section IV:
  - Conservation Practice Standard Waste Utilization-633, Solid Waste Utilization Work Sheet WY-ECS-45A and/or Liquid Waste Utilization Work Sheet WY-ECS-45B, and AFO/CAFO Inventory Data Planning Work Sheet WY-ECS-60
  - Conservation Practice Standard Nutrient Management-590 and Nutrient Management Work Sheets WY-ECS-44 and WY-ECS-58
  - Conservation Practice Standard Irrigation Water Management-449
  - 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 Work Sheets
  - Agronomy Technical Notice 12.2-Instructions for the WY-ECS-45A Waste Utilization Excel Worksheet
  - 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 Work Sheet 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
  - Plant Materials Technical Notice 9-Plant Materials for Conservation Buffers

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- 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 National Planning Procedures Handbook (NPPH), CNMP Technical Guidance Document
- NRCS Agricultural Waste Management Field Handbook, Chapter 4 – Agricultural Waste Characteristics
- NRCS National Environmental Compliance Handbook
- NRCS Cultural Resources Handbook